FUNAI

SERVICE MANUAL

Main Section
- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's
- Exploded views
- Parts List

When servicing the deck mechanism, refer to MK14 Deck Mechanism Section.

Deck Mechanism Part No.: N25C0FL

DVD PLAYER & VIDEO CASSETTE RECORDER

D8A-M1000DB
D8D-M1000DB

VHS
PAL

MAIN SECTION

DVD PLAYER &
VIDEO CASSETTE RECORDER

D8A-M1000DB
D8D-M1000DB

Main Section

- **Specifications**
- **Preparation for Servicing**
- **Adjustment Procedures**
- **Schematic Diagrams**
- **CBA's**
- **Exploded Views**
- **Parts List**

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SPECIFICATIONS

< VCR Section >

Description	Unit	Minimum	Nominal	Maximum	Remark
1. Video					
1-1. Video Output (PB)	Vp-p	0.8	1.0	1.2	SP Mode
1-2. Video Output (R/P)	Vp-p	0.8	1.0	1.2	
1-3. Video S/N Y (R/P)	dB	40	45		SP Mode, W/O Burst
1-4. Video Color S/N AM (R/P)	dB	37	41		SP Mode
1-5. Video Color S/N PM (R/P)	dB	30	36		SP Mode
1-6. Resolution (PB)	Line	230	245		SP Mode
2. Servo					
2-1. Jitter Low	µsec		0.07	0.12	SP Mode
2-2. Wow & Flutter	%		0.3	0.5	SP Mode
3. Normal Audio					
3-1. Output (PB)	dBV	-9	-4	-3	SP Mode
3-2. Output (R/P)	dBV	-9	-4	-1.5	SP Mode
3-3. S/N (R/P)	dB	36	41		SP Mode
3-4. Distortion (R/P)	%		1.0	4.0	SP Mode
3-5. Freq. resp (R/P) at 200Hz	dB	-6	-2		SP Mode
(-20dB ref. 1kHz) at 8kHz	dB	-8	-2		SP Mode
4. Tuner					
4-1. Video output	Vp-p	0.8	1.0	1.2	E-E Mode
4-2. Video S/N	dB	39	44		E-E Mode
4-3. Audio output	dB	-10	-6	-2	E-E Mode
4-4. Audio S/N	dB	40	46		E-E Mode

Note: Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

< DVD Section >

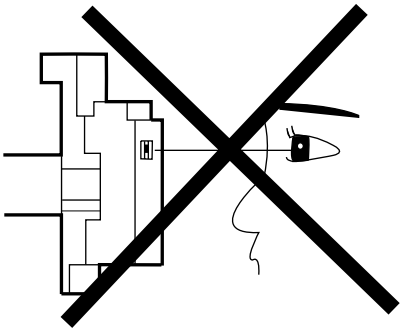
ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1. Video Output	75 Ω load	Vpp	1.0	± 0.1
2. Optical Digital Out		dBm	-18	
3. Audio (PCM)				
3-1. Output Level	1 kHz 0 dB, 47k Ω load	Vrms	2.0	
3-2. S/N	47k Ω load	dB	90	
3-3. Freq. Response				
DVD	fs = 48 kHz ± 0.5dB, 47k Ω load	Hz	20~22 k	
CD	fs = 44.1 kHz ± 0.5dB, 47k Ω load	Hz	20~20 k	
3-4. THD+N				
DVD	1 kHz 0dB, 47k Ω load	%	0.01	
CD	1 kHz 0dB, 47k Ω load	%	0.01	

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply : 220 - 240 V ~ 50 Hz
3. Ambient temperature : 5 °C ~ 40 °C

LASER BEAM SAFETY PRECAUTIONS

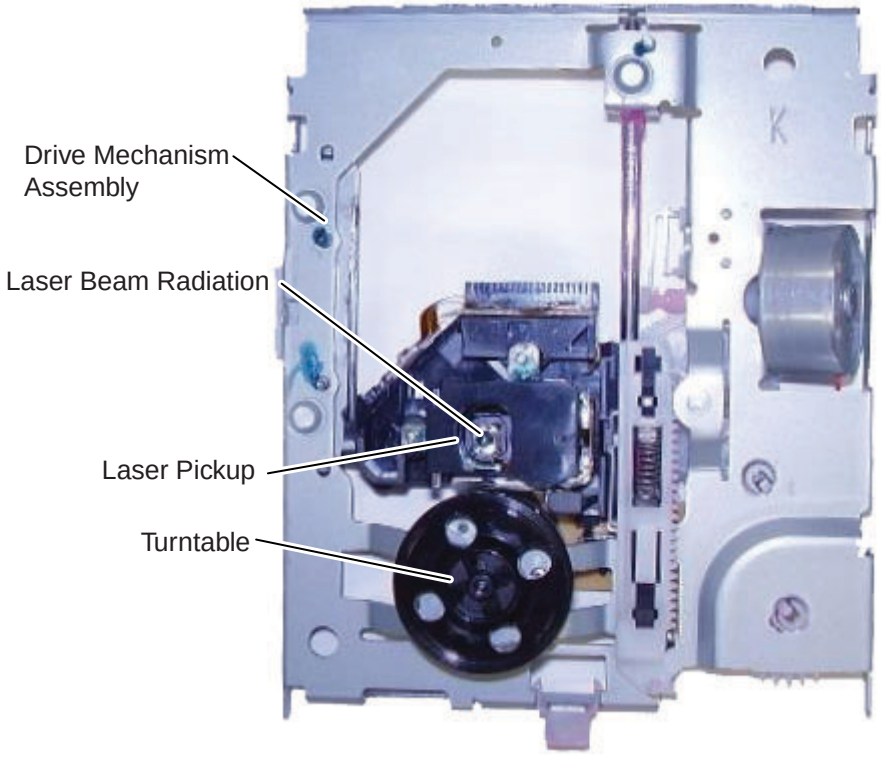
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30 cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

CAUTION: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



Location: Top of DVD mechanism.

IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced**.**

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety. Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

1)Wires covered with PVC tubing

2)Double insulated wires

3)High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

1)Insulation tape

2)PVC tubing

3)Spacers

4)Insulators for transistors

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

G. Check that replaced wires do not contact sharp edges or pointed parts.

H. When a power cord has been replaced, check that 5 - 6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
220 to 240 V	≥ 3 mm(d) ≥ 6 mm(d')

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

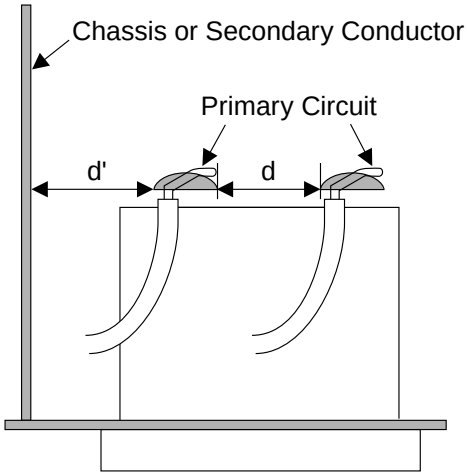


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON) :

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.

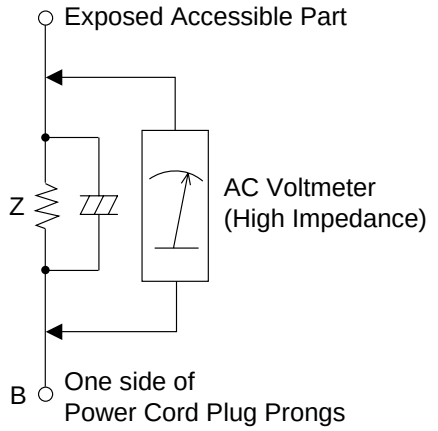


Fig. 2

Table 2: Leakage current ratings for selected areas

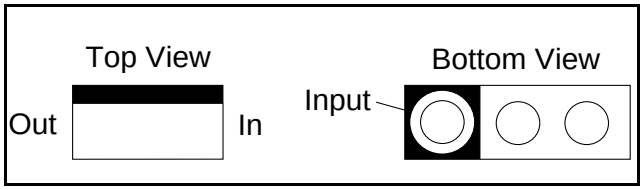
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

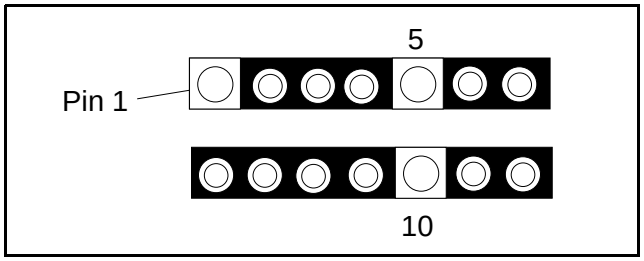
STANDARD NOTES FOR SERVICING

Circuit Board Indications

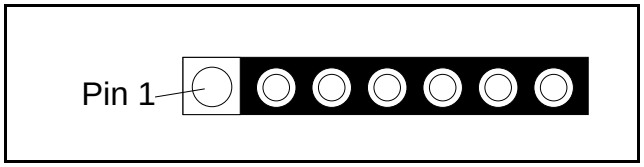
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

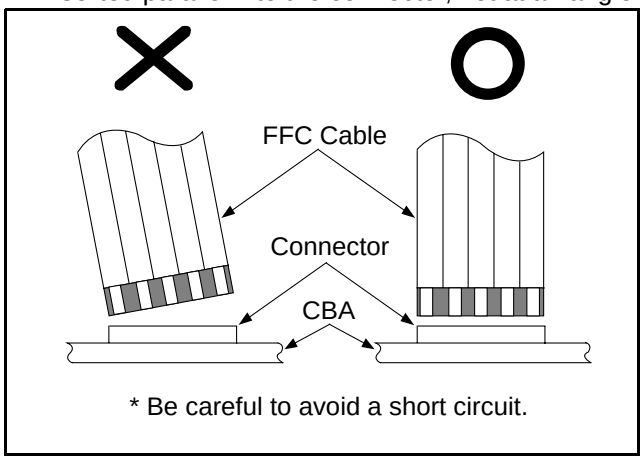


3. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Pb (Lead) Free Solder

When soldering, be sure to use the Pb free solder.

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:.

(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

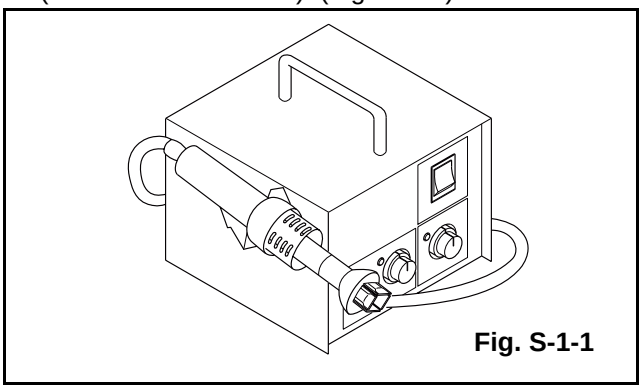


Fig. S-1-1

(2) Remove the flat pack-IC with tweezers while applying the hot air.

(3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)

(4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

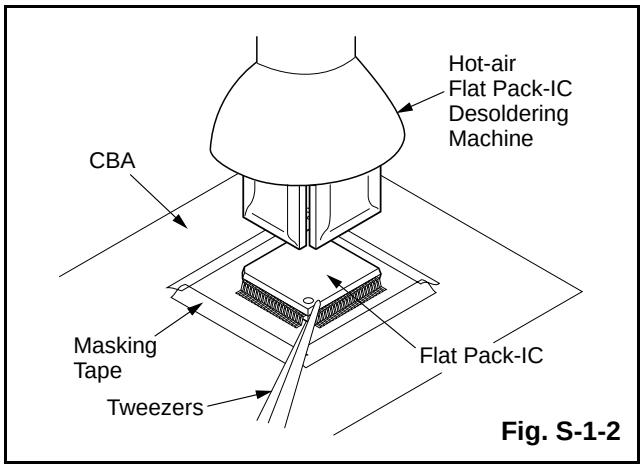


Fig. S-1-2

With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

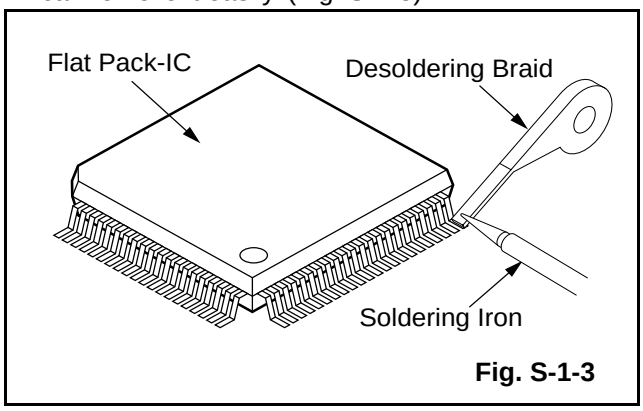


Fig. S-1-3

(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

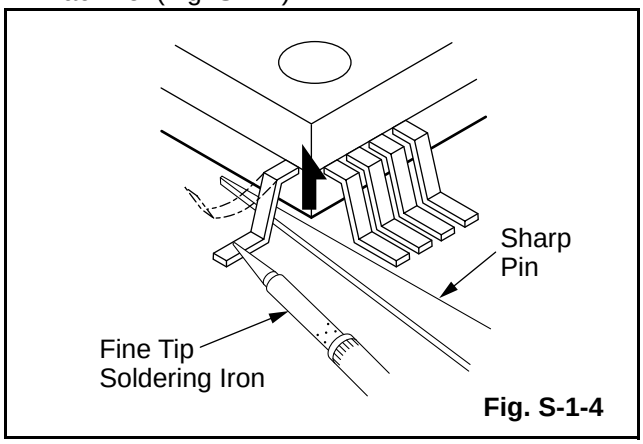


Fig. S-1-4

(3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)

(4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

(2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.

(3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.

(4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)

(5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note:

When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

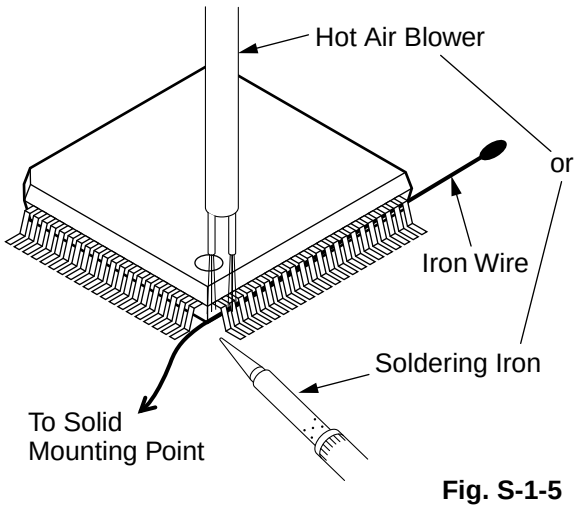


Fig. S-1-5

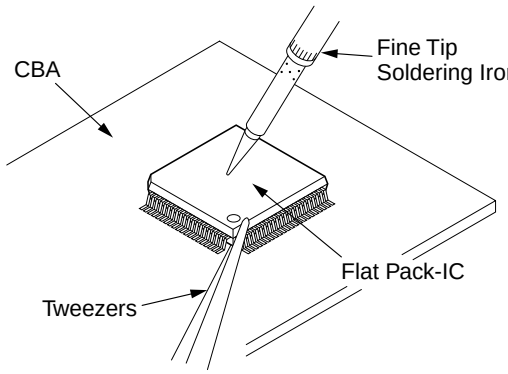


Fig. S-1-6

2. Installation

(1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.

(2) The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)

(3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

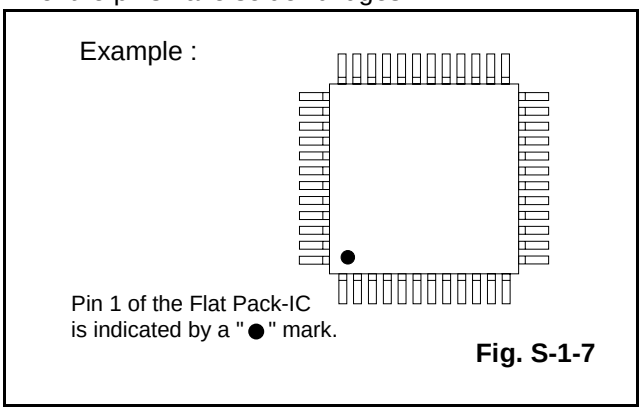


Fig. S-1-7

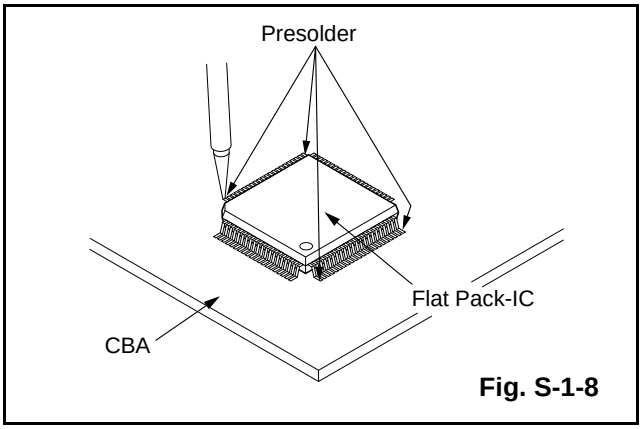


Fig. S-1-8

Instructions for Handling Semi-conductors

Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

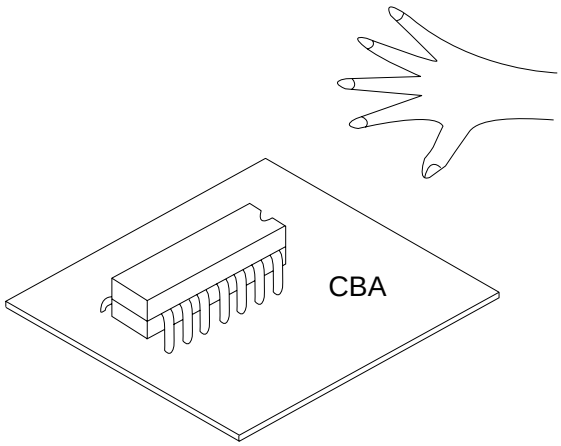
1. Ground for Human Body

Be sure to wear a grounding band (1MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

(1) Be sure to place a conductive sheet or copper plate with proper grounding (1MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

< Incorrect >



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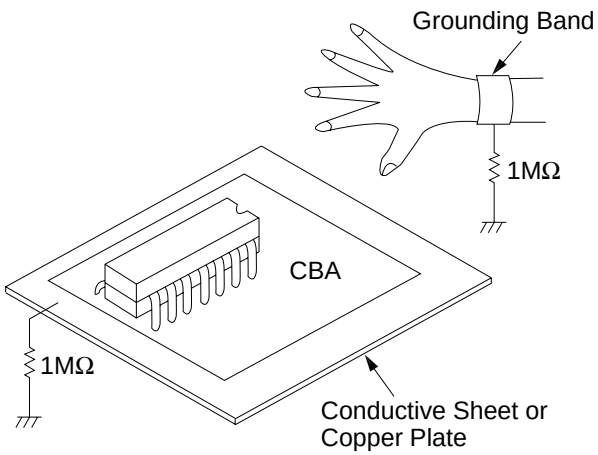


PREPARATION FOR SERVICING

How to Enter the Service Mode

About Optical Sensors

Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect TP501 (S-INH) to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

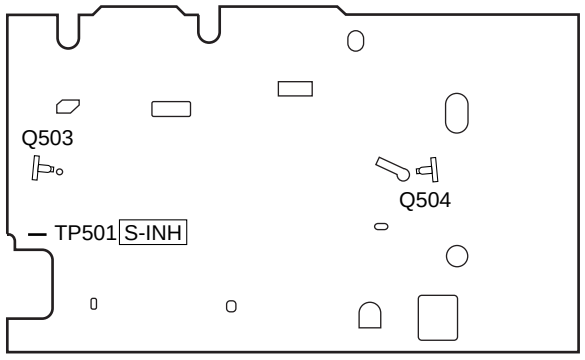
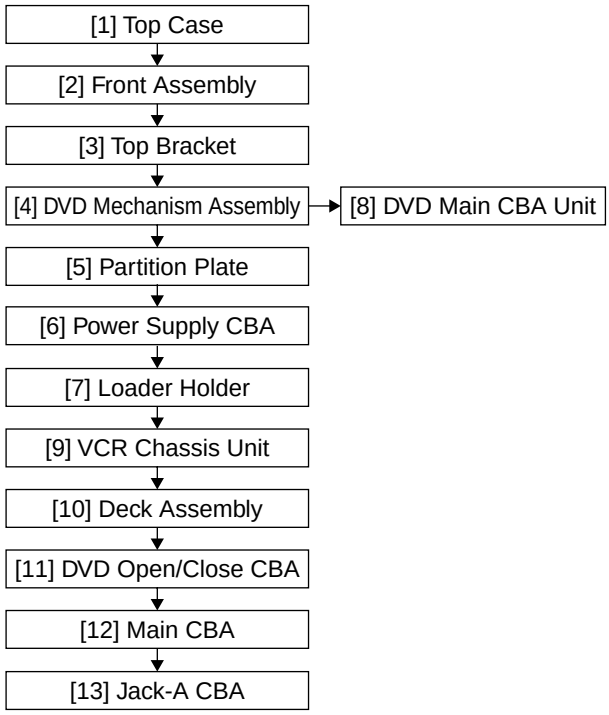


Fig. 1

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Top Case	D1	8(S-1)	-
[2]	Front Assembly	D2	*3(L-1), *3(L-2)	1 1-1 1-2
[3]	Top Bracket	D2	3(S-2)	-
[4]	DVD Mechanism Assembly	D3	4(S-3), *CN401, *CN601	-
[5]	Partition Plate	D3	(S-4)	-
[6]	Power Supply CBA	D3	2(S-5), CN501	-
[7]	Loader Holder	D3	2(S-6)	-
[8]	DVD Main CBA Unit	D4	2(S-7), *CN201, *CN301	2 2-1 2-2 3
[9]	VCR Chassis Unit	D5	5(S-8), 2(S-9), (S-10), (L-3)	-
[10]	Deck Assembly	D6	Desolder, 2(S-11), (S-12)	4,5
[11]	DVD Open/ Close CBA	D6	Desolder	-
[12]	Main CBA	D6	----------	-
[13]	Jack-A CBA	D6	Desolder, 6(S-13)	-
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)

Note:

(1): Identification (location) No. of parts in the figures

(2): Name of the part

(3): Figure Number for reference

(4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P=Spring, L=Locking Tab, S=Screw, CN=Connector
*=Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5): Refer to “Reference Notes.”

Reference Notes

CAUTION 1: Locking Tabs (L-1) and (L-2) are fragile. Be careful not to break them.

1-1. Release three Locking Tabs (L-1).

1-2. Release three Locking Tabs (L-2), then remove the Front Assembly.

CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc., during unpacking or repair work.

To avoid damage of pickup follow next procedures.

2-1. Disconnect Connector (CN301). Remove two Screws (S-7) and lift the DVD Main CBA Unit. (Fig. D4)

2-2. Short the three short lands of FPC cable with solder before removing the FFC cable (CN201) from it. If you disconnect the FFC cable (CN201), the laser diode of pickup will be destroyed. (Fig. D4)

CAUTION 3: When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D4)

4. When reassembling, solder wire jumpers as shown in Fig. D6.

5. Before installing the Deck Assembly, be sure to place the pin of LD-SW on Main CBA as shown in Fig. D6. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. D6.

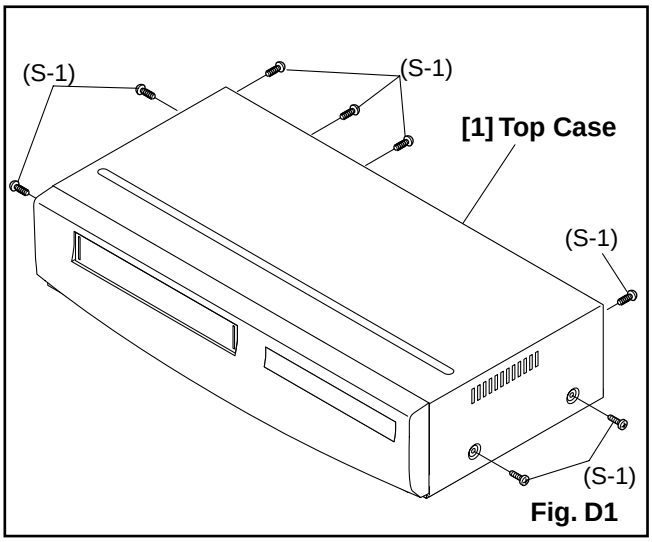


Fig. D1

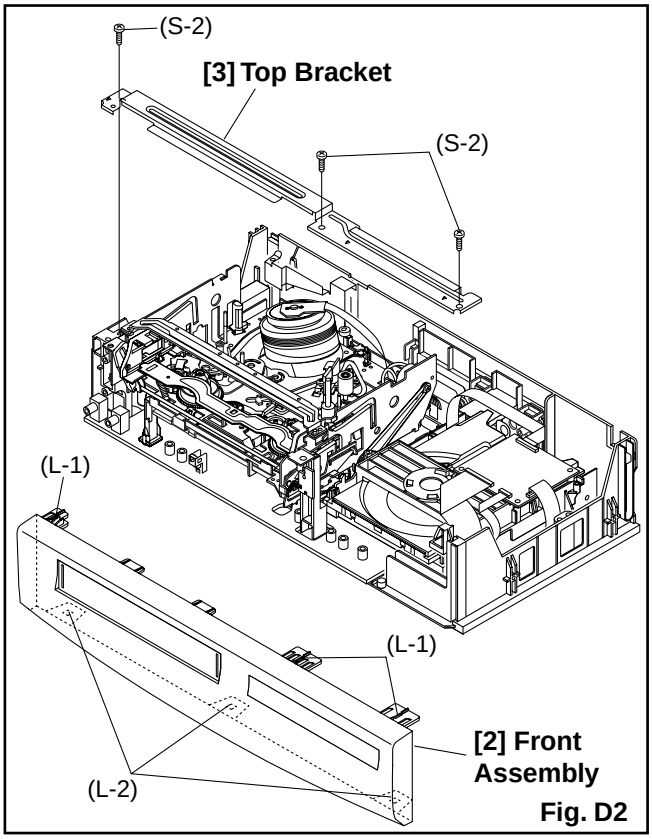


Fig. D2

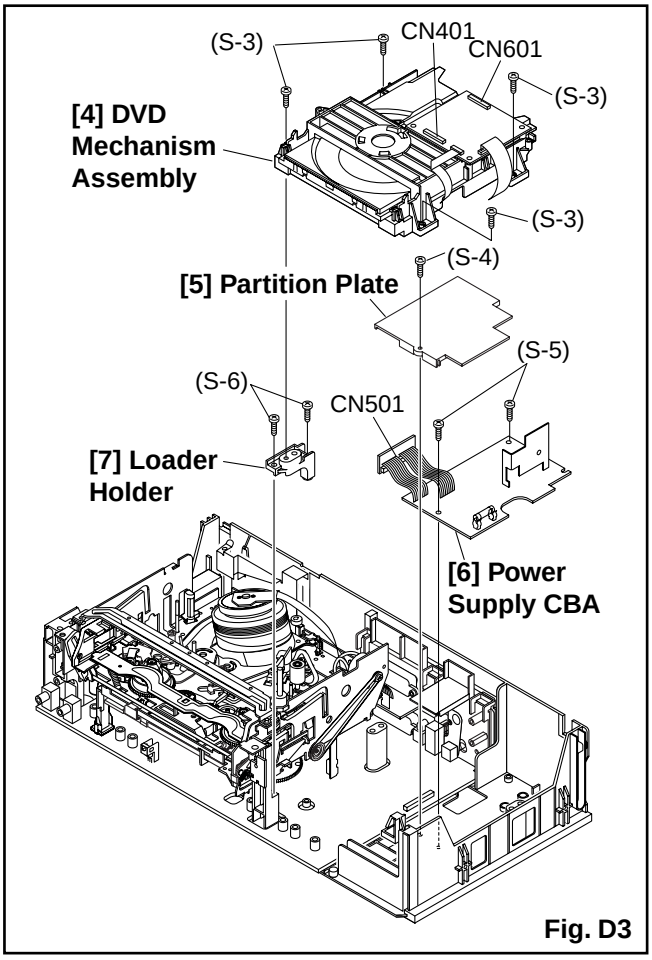


Fig. D3

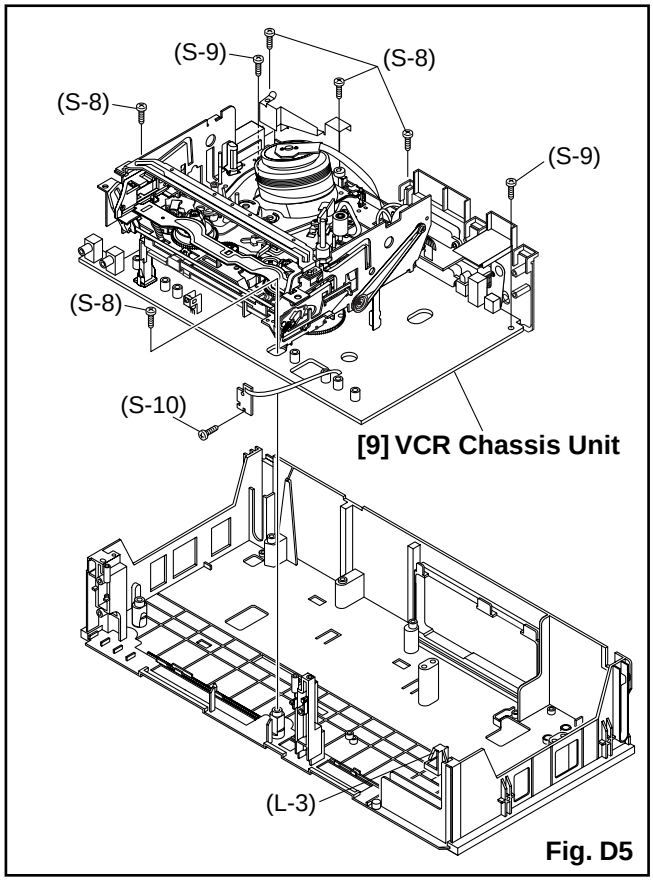


Fig. D5

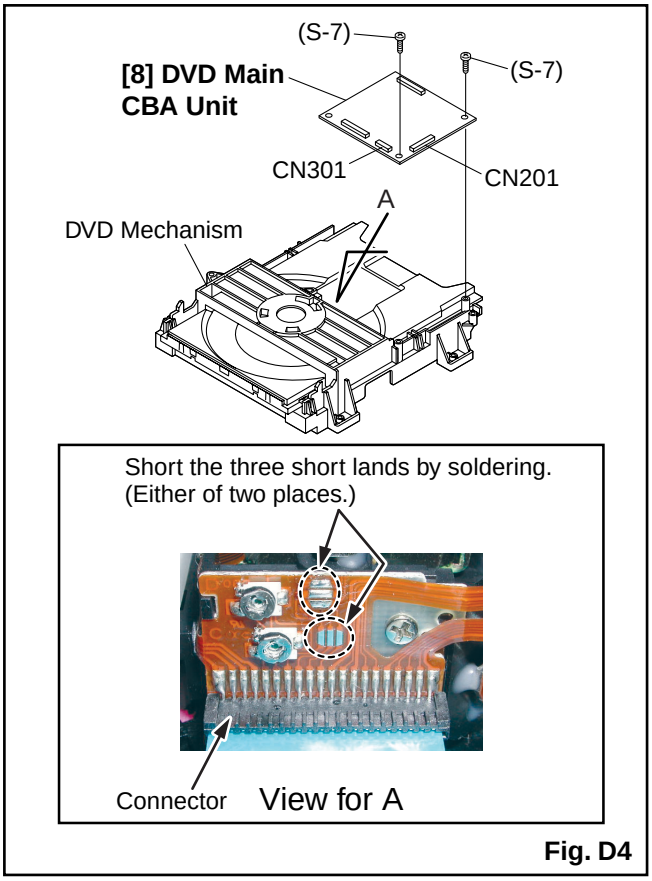
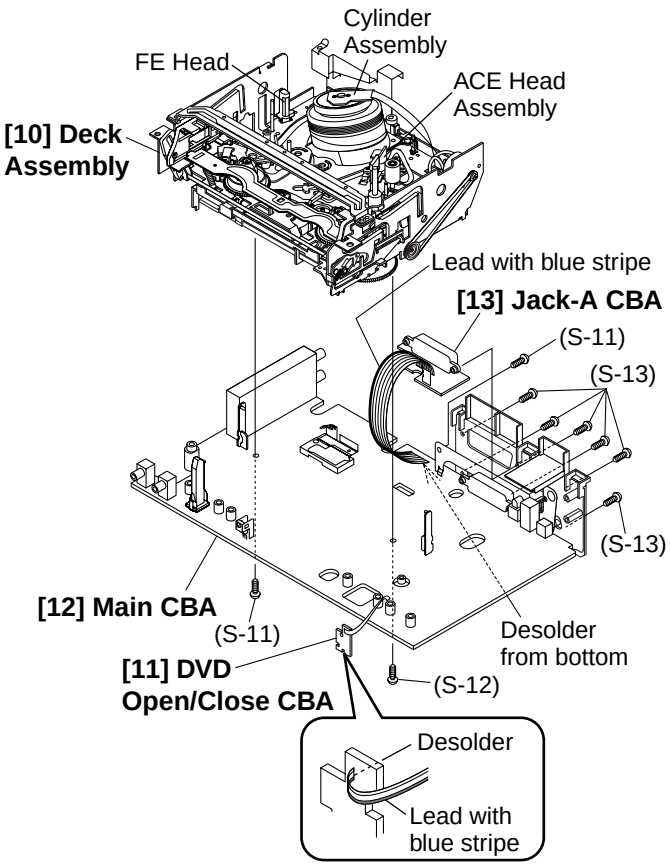
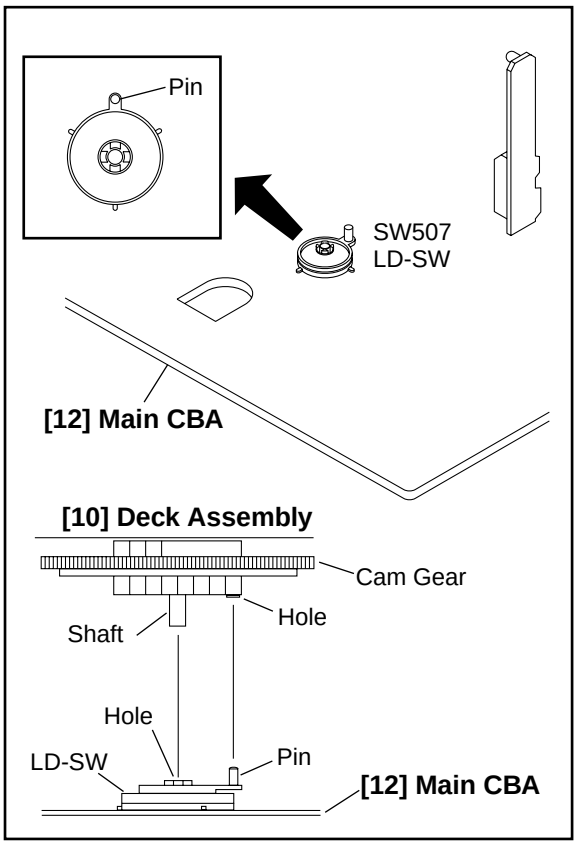
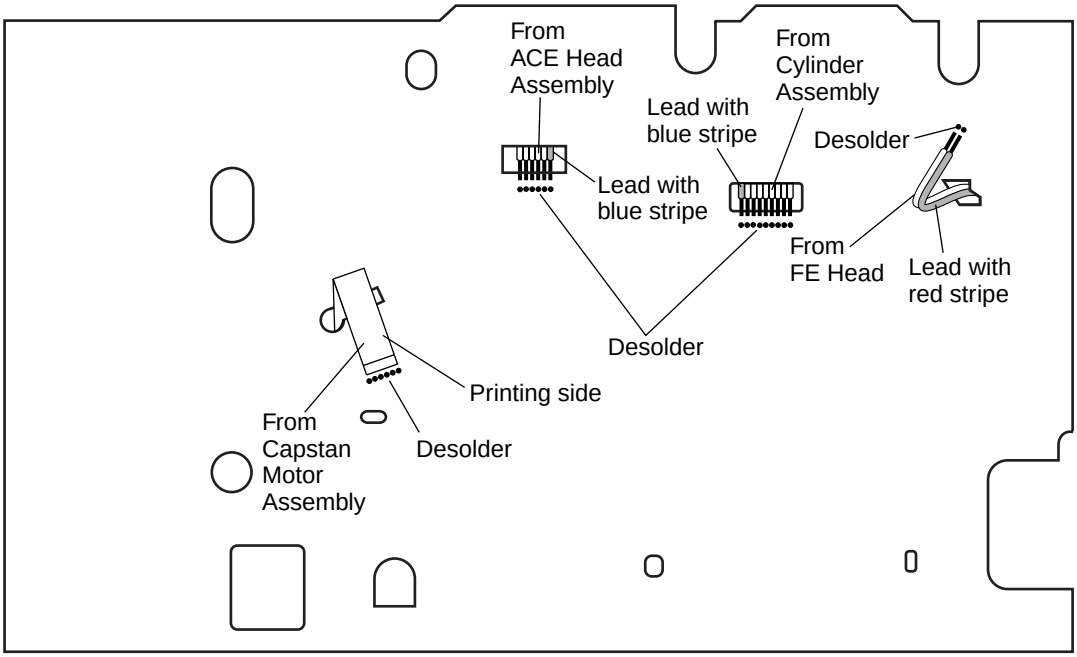


Fig. D4







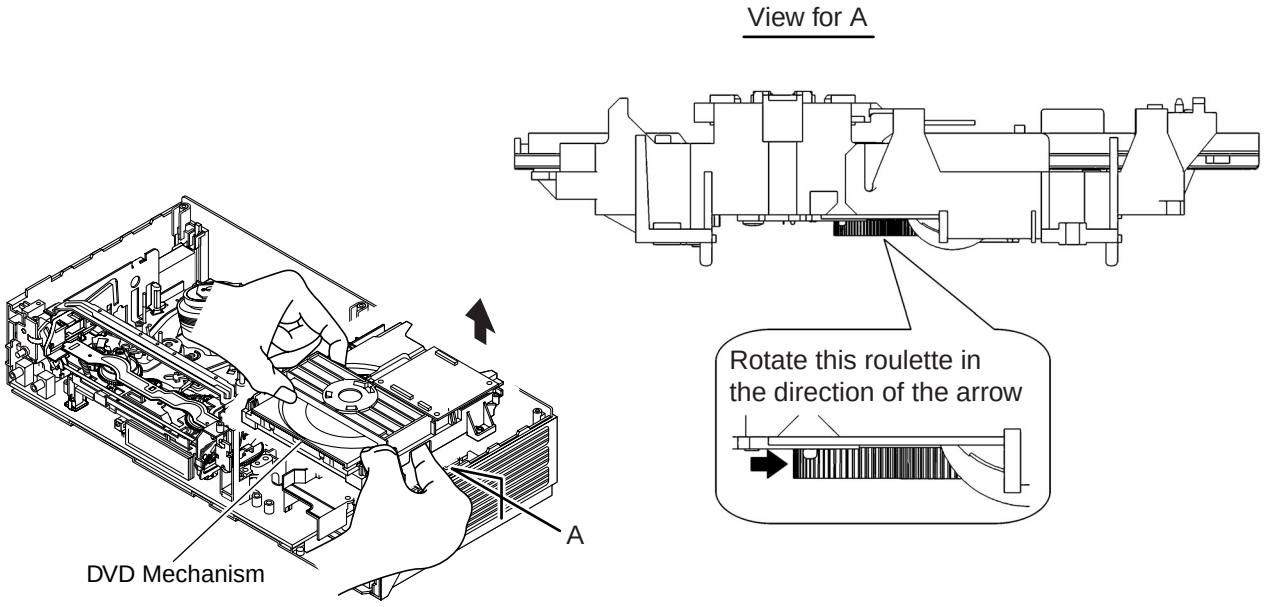
BOTTOM VIEW

Lead connections of Deck Assembly and Main CBA

Fig. D6

HOW TO EJECT MANUALLY

1. Remove the Top Case, Front Assembly and Top Bracket.
2. Remove four Screws (S-3) in Fig. D3. Do not disconnect connectors.
3. While lifting up the DVD Mechanism, rotate the roulette in the direction of the arrow as shown below.
4. Pull the tray slowly manually.



ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is an abbreviation for "Circuit Board Assembly."

NOTE:

Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

1. Test Equipment Required

Alignment Tape (FL6A)

2. Head Switching Position Adjustment

Purpose:

To determine the Head Switching position during playback.

Symptom of Misadjustment:

May cause Head Switching noise or vertical jitter in the picture.

Procedures:

1. Eject a tape and turn the power off.
2. To enter the service mode, press [CHANNEL ▲] and [F.FWD] buttons on the unit simultaneously for at least 2 seconds.
   - The unit turn the power on in the service mode.
   - Fig. E1 appears on the display.

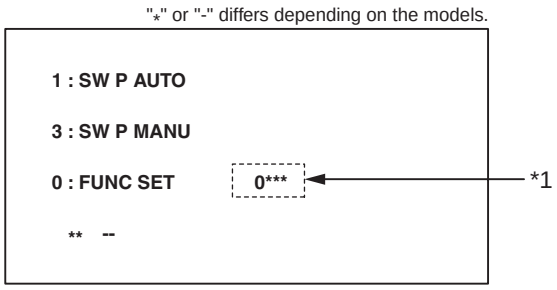


Fig. E1

3. Insert the Alignment Tape (FL6A). Auto adjustment starts.
4. After short time, “OK” appears on the display and auto adjustment completes. Press [STOP] to cancel the auto adjustment mode.
5. Eject the Alignment Tape (FL6A).

3. To check/reset the initial function setting

Preparation:

1. Enter the service mode.
2. Check the “0: FUNC SET” value (*1) in Fig. E1.

When the “0: FUNC SET” value is “0381” (D8A-M1000DB) or “0382” (D8D-M1000DB) :

1. To cancel the service mode, press [SET UP] button on the remote control.
2. If necessary, eject a tape.
3. To turn the power off, press [STANDBY-ON] button.

When the “0: FUNC SET” value is not “0381” (D8A-M1000DB) or “0382” (D8D-M1000DB):

1. To enter the initial function setting mode, press [0] button on the remote control.
   - Fig. E2 appears on the display.

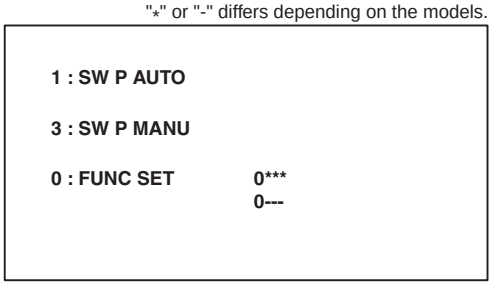


Fig. E2

2. Set the “0: FUNC SET” value at "0381"(D8A-M1000DB) or "0382" (D8D-M1000DB) by using [▲/▼/◀/▶ (up/down/left/right)] buttons on the remote control.
3. To return to the service mode, press [STOP] button on the unit.
4. To cancel the service mode, press [SET UP] button on the remote control.
5. If necessary, eject a tape.
6. To turn the power off, press [STANDBY-ON] button.
7. To reset the unit, press [CHANNEL ▲] and [REW] buttons on the unit simultaneously for at least 2 seconds.

HOW TO INITIALIZE THE DVD PLAYER & VCR

To put the program back at the factory-default, initialize the DVD player & VCR as the following procedure.

< DVD Section >

1. Press [DVD], [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
   Fig. a appears on the screen.

"*******" differs depending on the models.

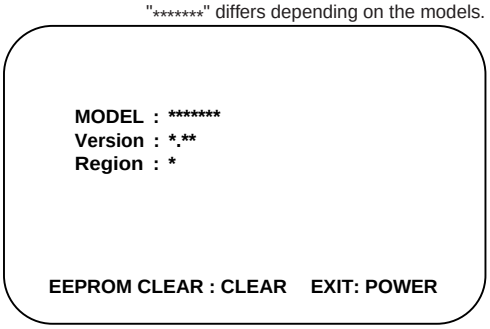


Fig. a

2. Press [CLEAR C.RESET] button on the remote control unit.
   Fig. b appears on the screen.

"*******" differs depending on the models.

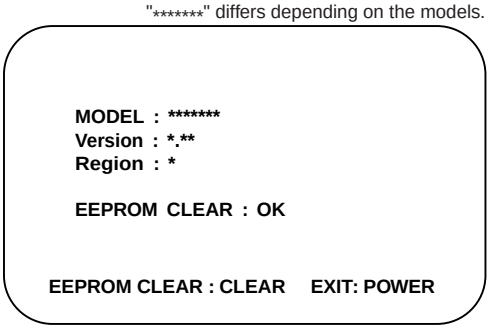


Fig. b

   When “OK” appears on the screen, the factory default will be set.
3. To exit this mode, press [STANDBY-ON] button.

FIRMWARE RENEWAL MODE

1. Turn the power on and remove the disc on the tray.
2. To put the DVD player into version up mode, press [DVD], [9], [8], [7], [6], and [SEARCH] buttons on the remote control unit in that order. The tray will open automatically.
   Fig. a appears on the screen.

"*******" differs depending on the models.

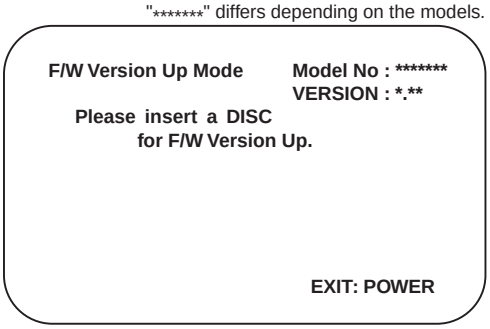


Fig. a Version Up Mode Screen

   The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.
3. Load the disc for version up.
4. The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen. If you enter the F/W for different models, “Disc Error” will appear on the screen, then the tray will open automatically.

"*******" differs depending on the models.

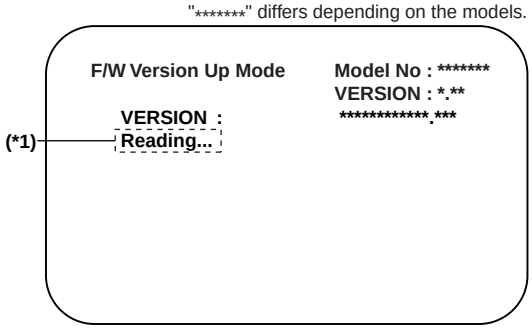


Fig. c Programming Mode Screen

   The appearance shown in (*1) of Fig. c is described as follows:

No.	Appearance	State
1	Reading...	Sending files into the memory
2	Erasing...	Erasing previous version data
3	Programming...	Writing new version data

5. After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum will be shown in (*2) of Fig. e.

"*******" differs depending on the models.

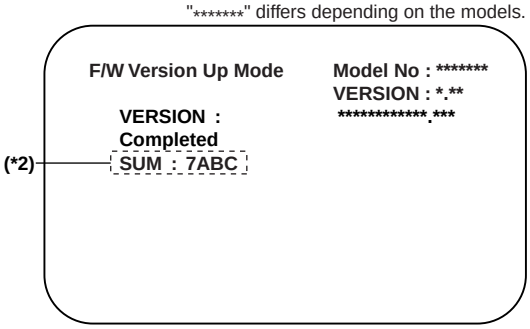


Fig. e Completed Program Mode Screen

   At this time, no button is available.
6. Remove the disc on the tray.
7. Unplug the AC cord from the AC outlet. Then plug it again.
8. Turn the power on by pressing the [STANDBY-ON] button and the tray will close.
9. Press [DVD], [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
   Fig. g appears on the screen.

"*******" differs depending on the models.

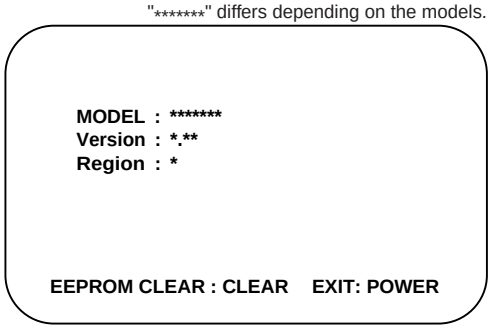


Fig. g

10. Press [CLEAR C.RESET] button on the remote control unit.
    Fig. h appears on the screen.

"*******" differs depending on the models.

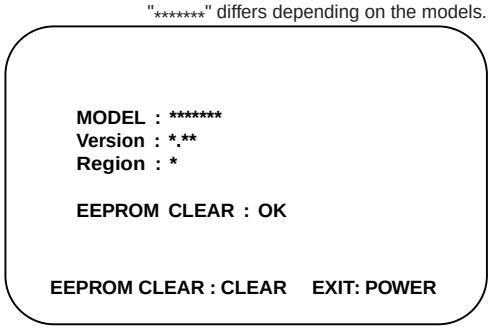


Fig. h

    When “OK” appears on the screen, the factory default will be set. Then the firmware renewal mode is complete.
11. To exit this mode, press [STANDBY-ON] button.

FUNCTION INDICATOR SYMBOLS

Note:

If a mechanical malfunction occurs, the power is turned off. When the power comes on again after that by pressing [STANDBY-ON] button, an error message is displayed on the TV screen for 5 seconds.

MODE	INDICATOR ACTIVE
When reel or capstan mechanism is not functioning correctly	"⏏ R" is displayed on a TV screen. (Refer to Fig. 1.)
When tape loading mechanism is not functioning correctly	"⏏ T" is displayed on a TV screen. (Refer to Fig. 2.)
When cassette loading mechanism is not functioning correctly	"⏏ C" is displayed on a TV screen. (Refer to Fig. 3.)
When the drum is not working properly	"⏏ D" is displayed on a TV screen. (Refer to Fig. 4.)
P-ON Power safety detection	"⏏ P" is displayed on a TV screen. (Refer to Fig. 5.)

TV screen

When reel or capstan mechanism is not functioning correctly

Fig. 1

When tape loading mechanism is not functioning correctly

Fig. 2

When cassette loading mechanism is not functioning correctly

Fig. 3

When the drum is not working properly

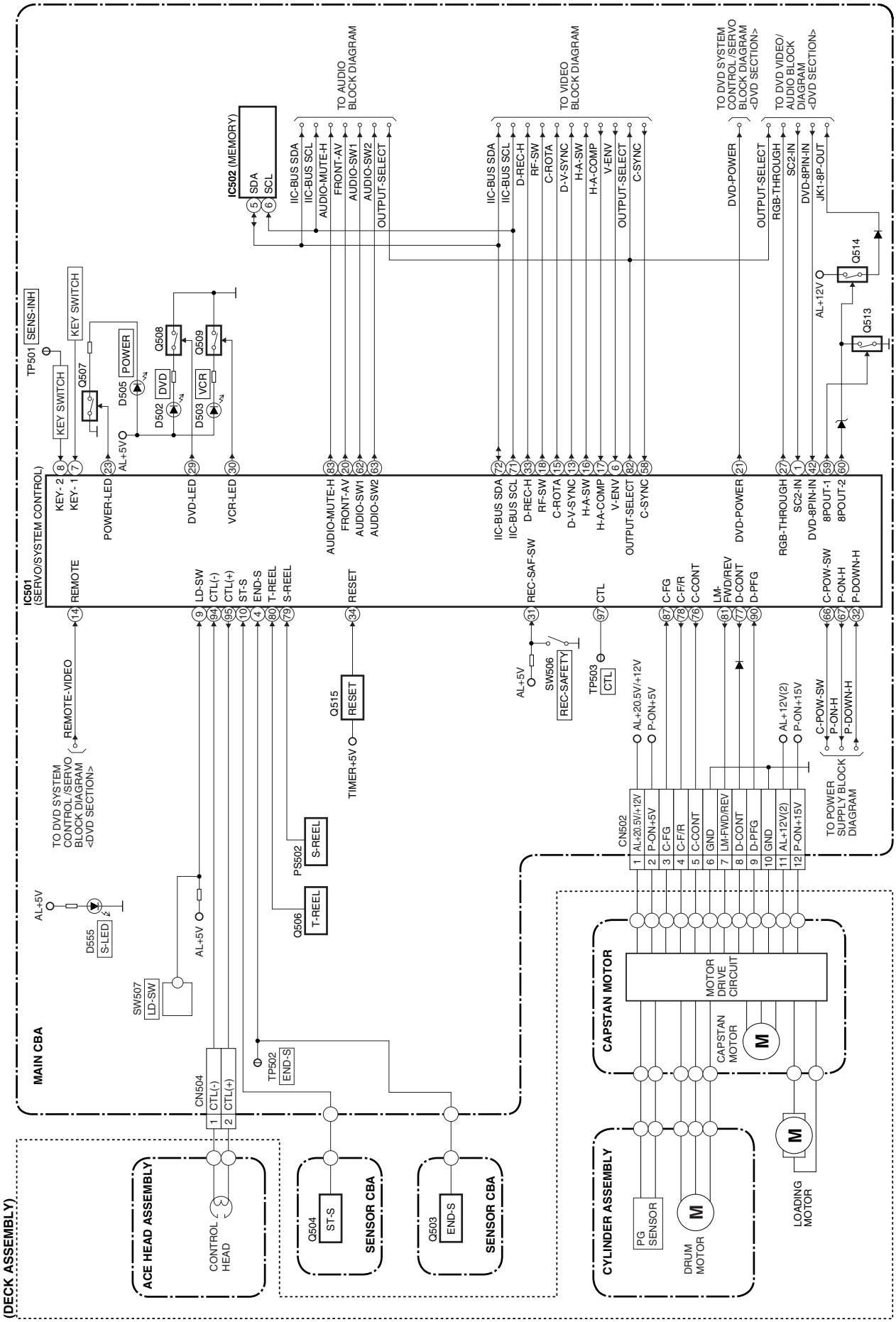
Fig. 4

P-ON Power safety detection

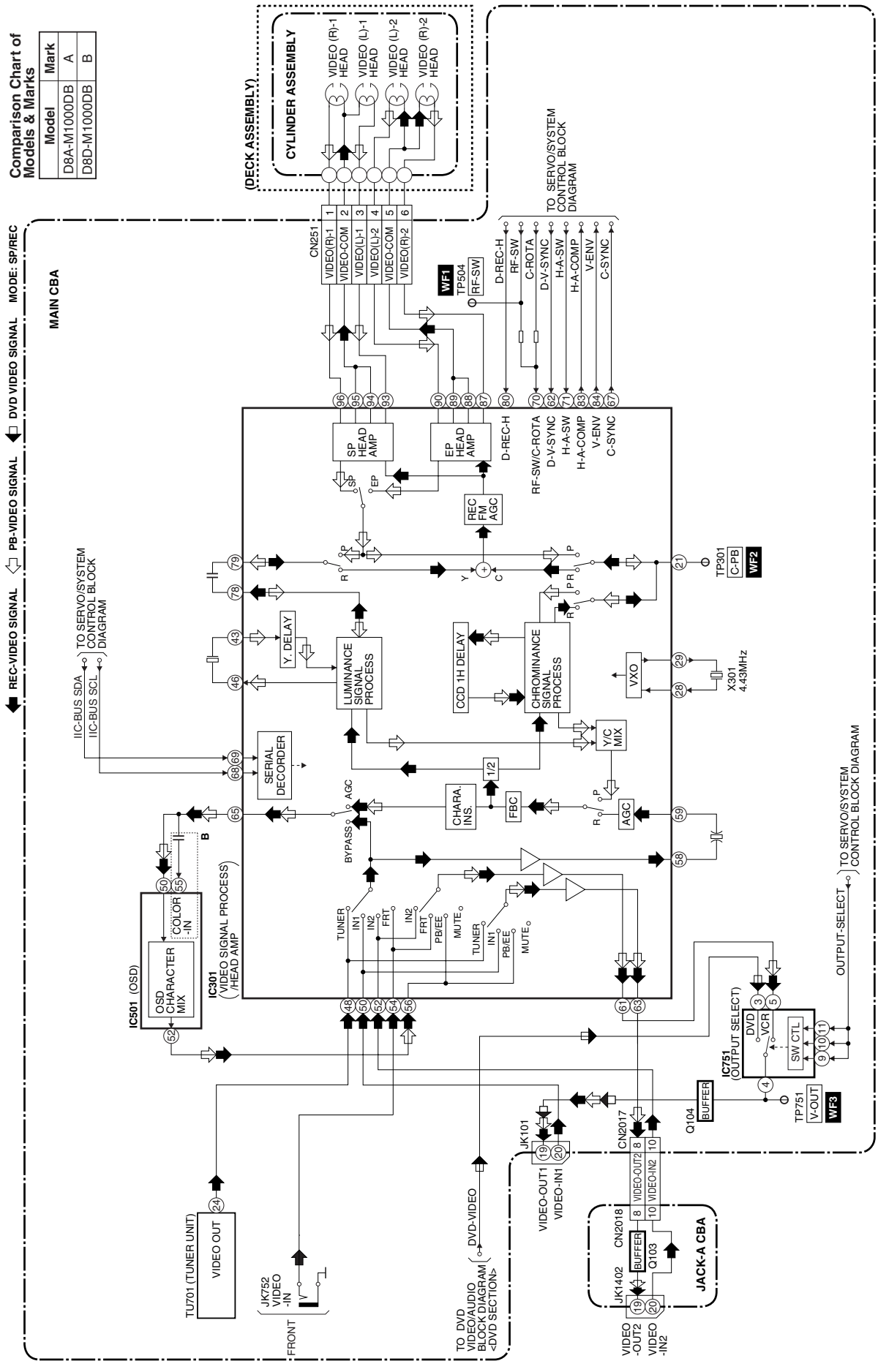
Fig. 5

BLOCK DIAGRAMS <VCR SECTION>

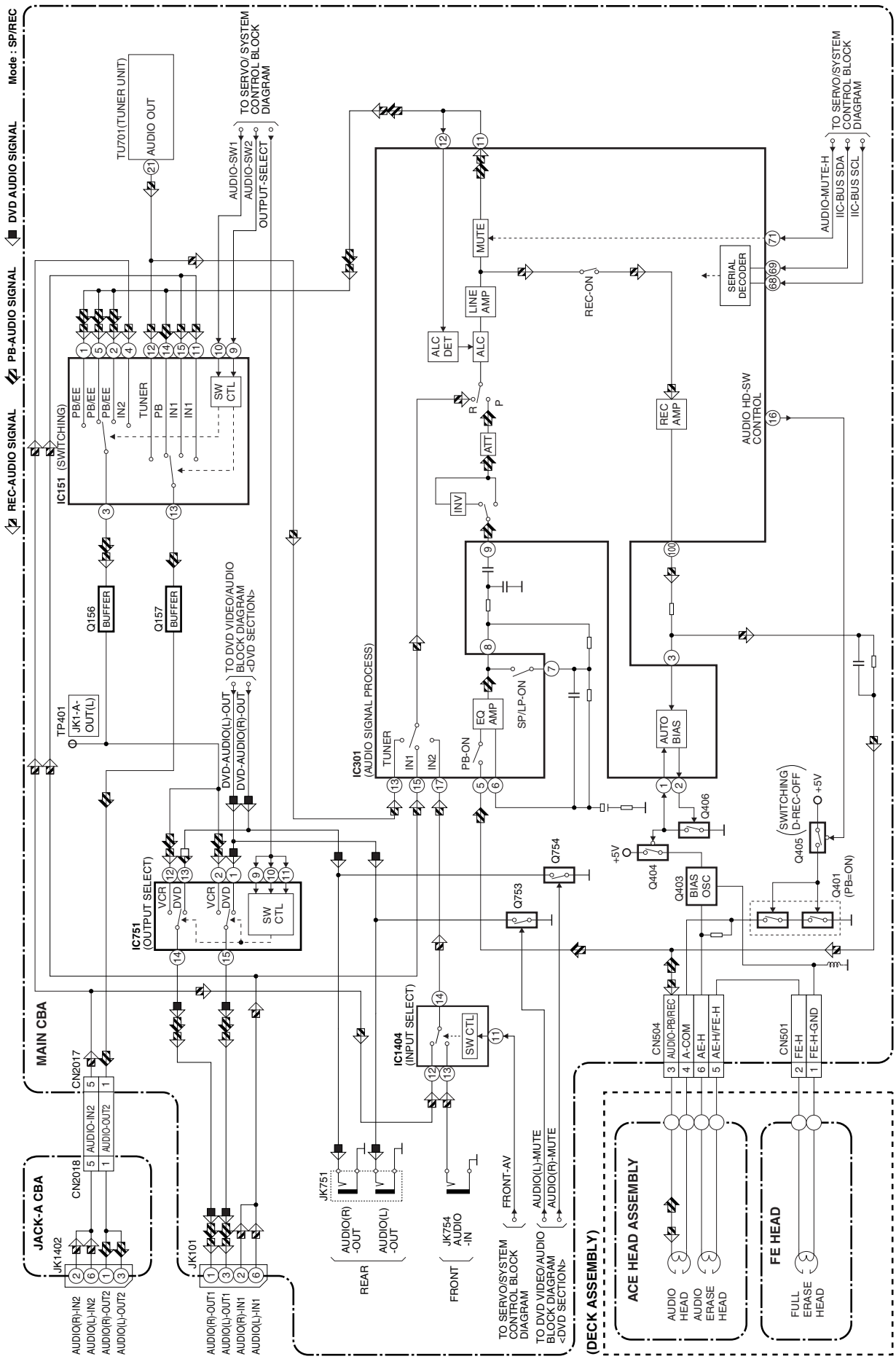
Servo / System Control Block Diagram



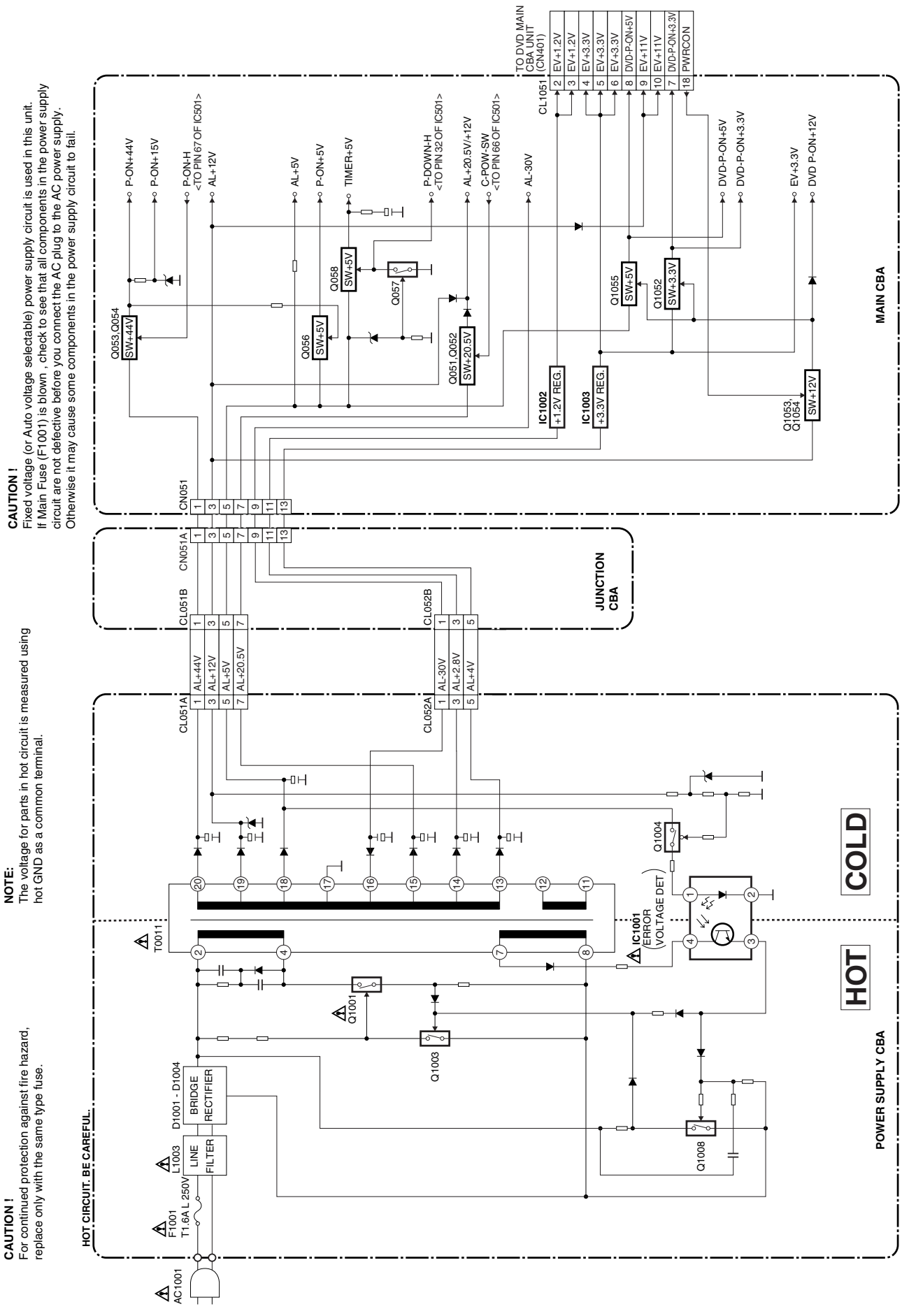
Video Block Diagram



Audio Block Diagram

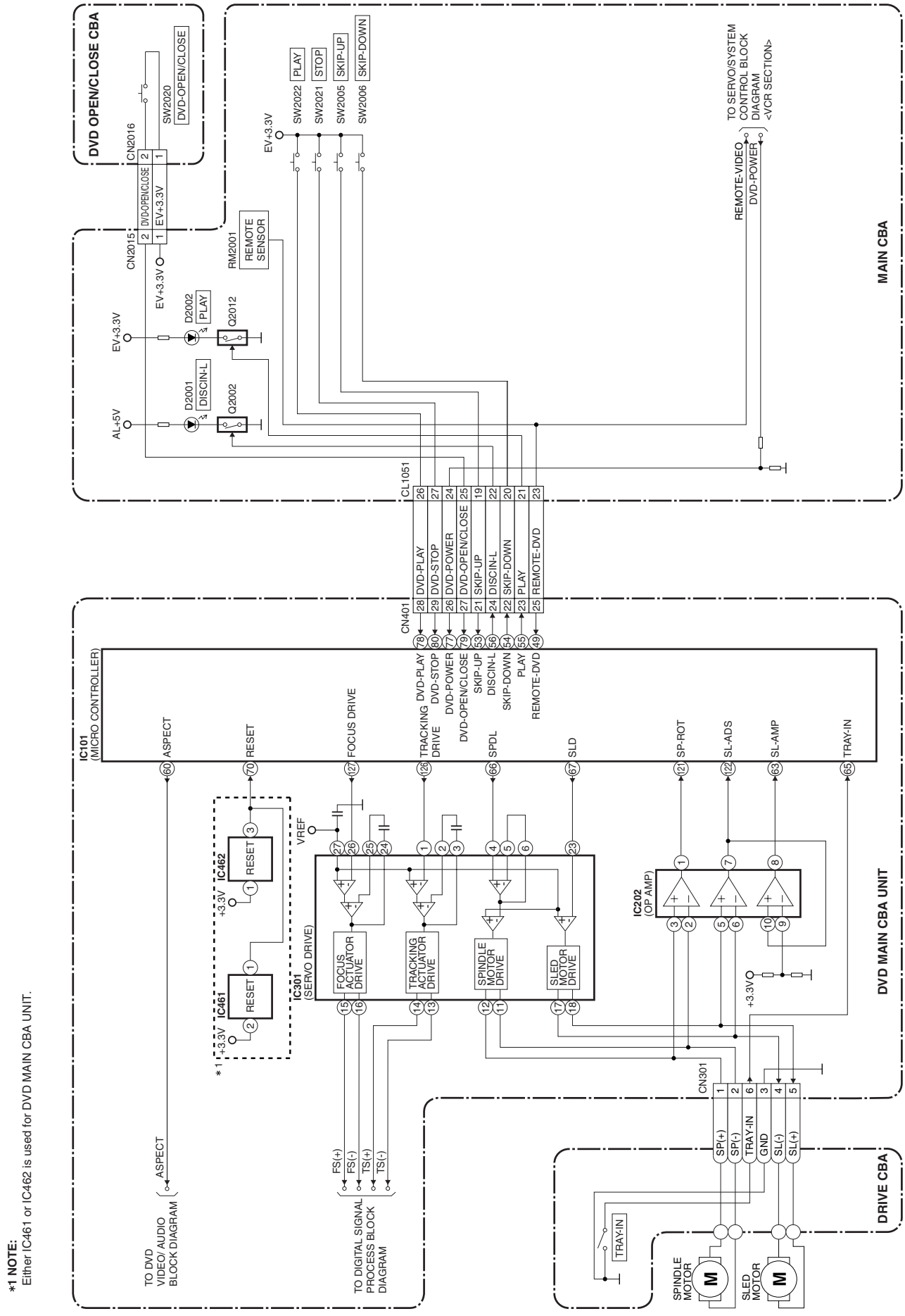


Power Supply Block Diagram



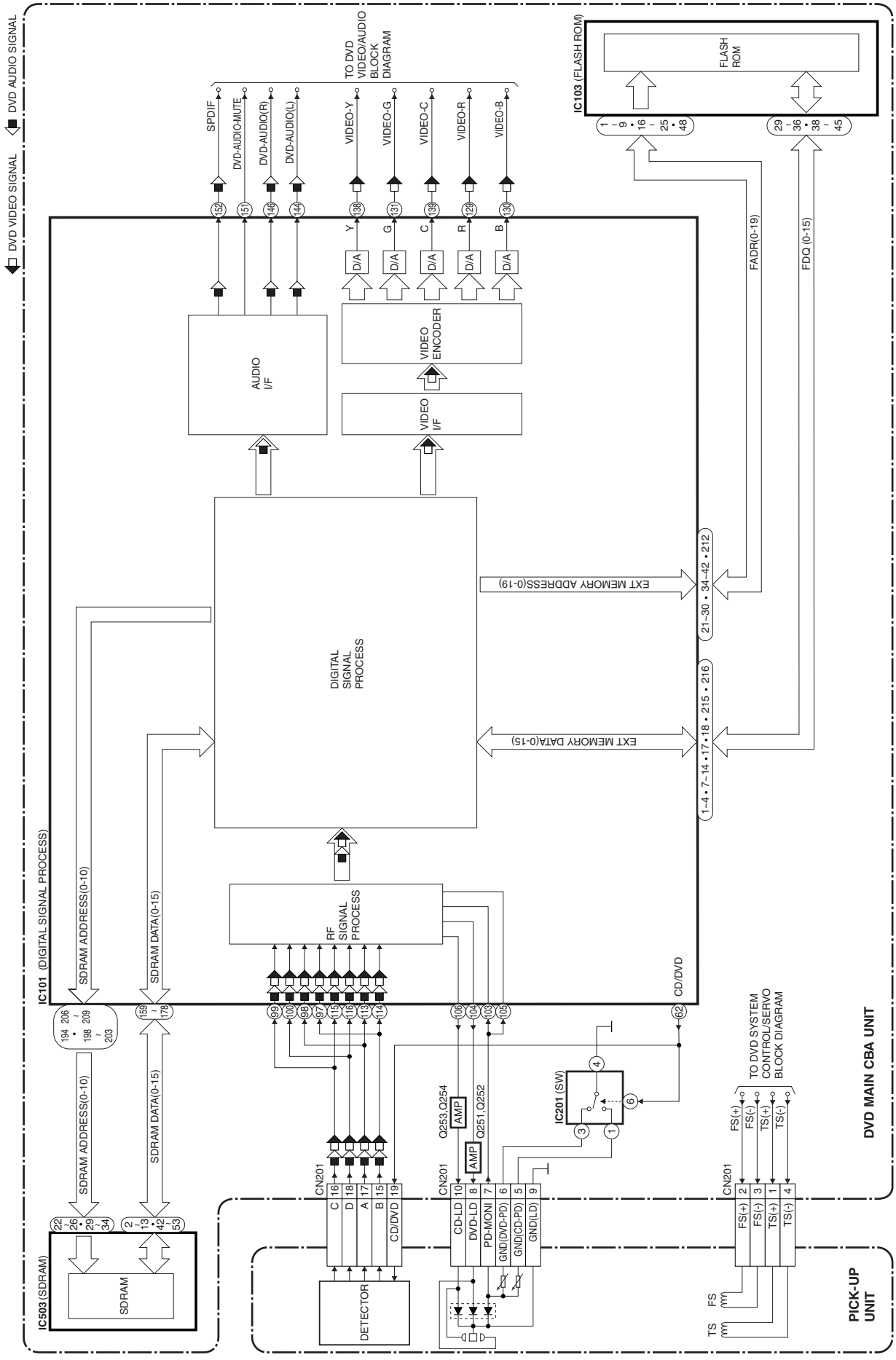
BLOCK DIAGRAMS <DVD SECTION>

DVD System Control / Servo Block Diagram

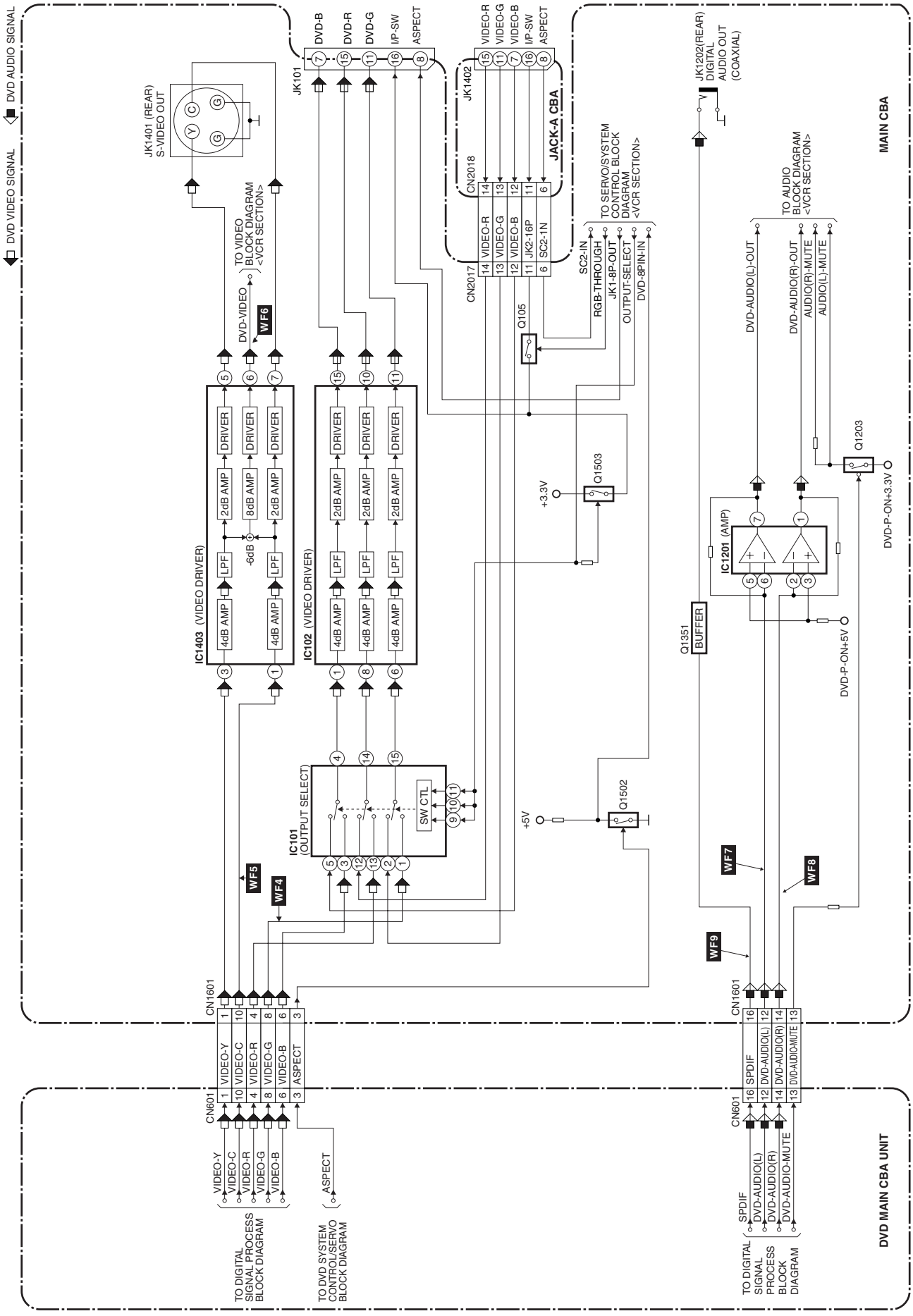


***1 NOTE:**
Either IC461 or IC462 is used for DVD MAIN CBA UNIT.

Digital Signal Process Block Diagram



DVD Video / Audio Block Diagram



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ⚠ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

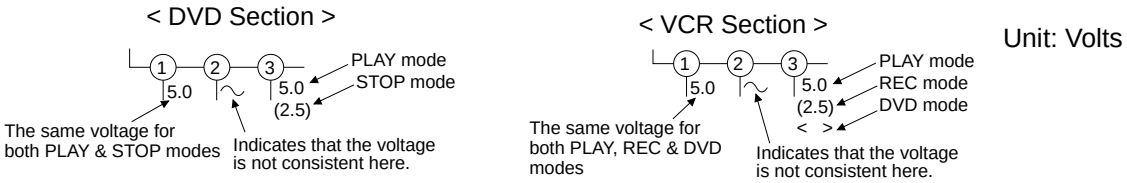
LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. **CAUTION:**
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

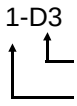
2. **CAUTION:**
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. **Note:**
(1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
(2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

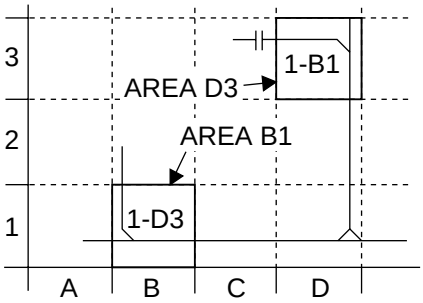
4. Voltage indications for PLAY and REC modes on the schematics are as shown below:



5. How to read converged lines



Examples:
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

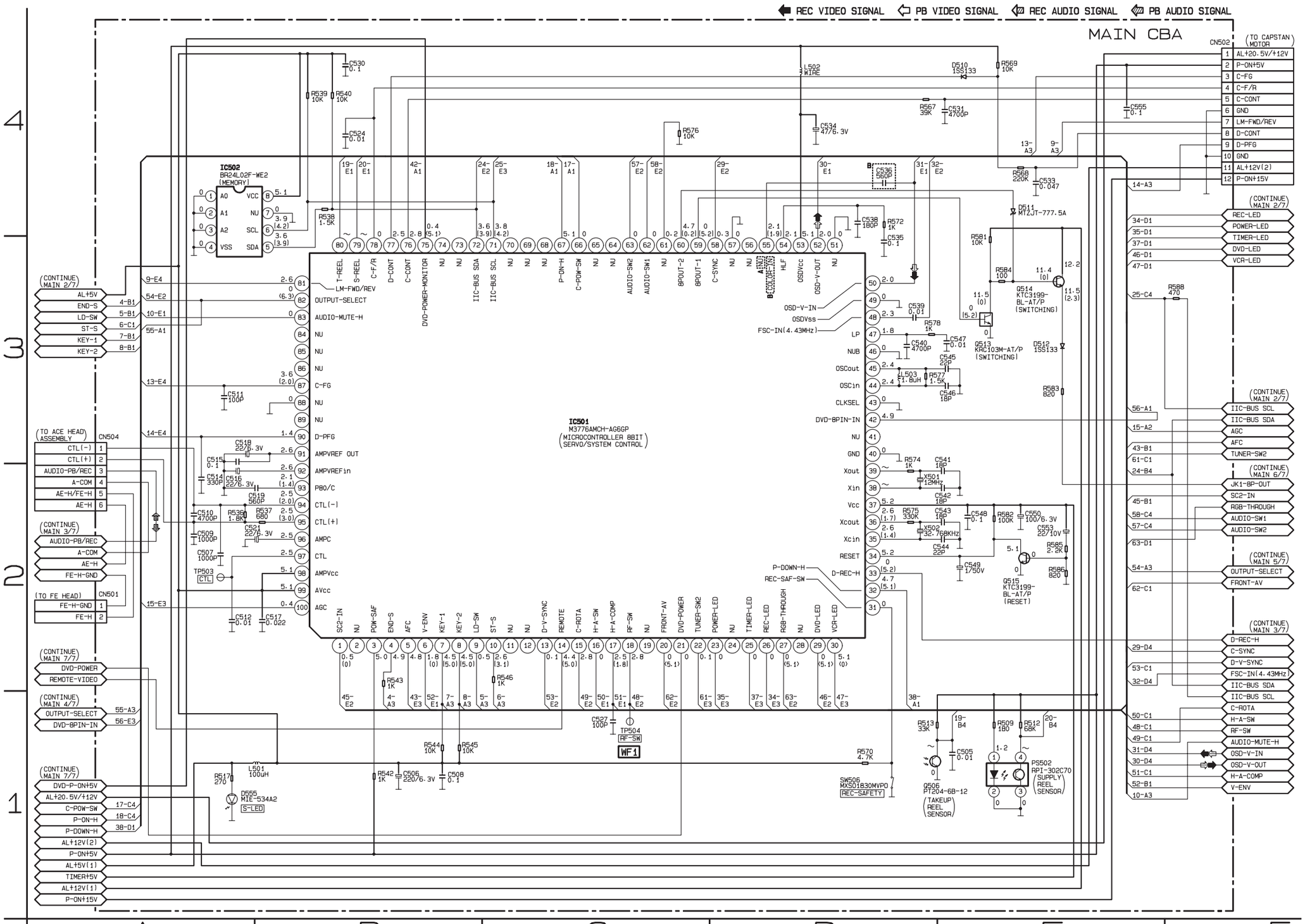
: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

Main 1/7 Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

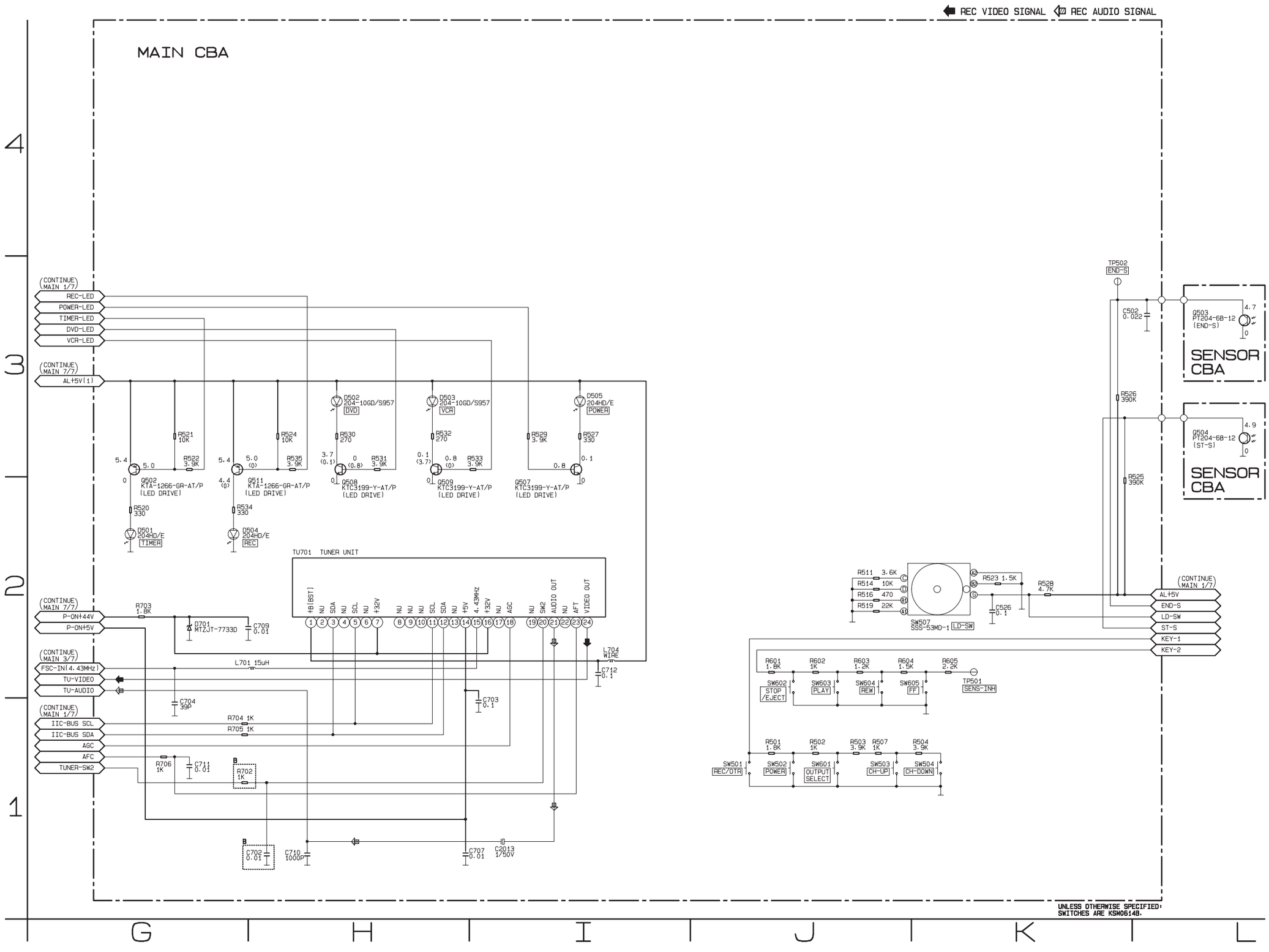
MODEL	MARK
D8A-M1000DB	A
D8D-M1000DB	B



Main 2/7 & Sensor Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

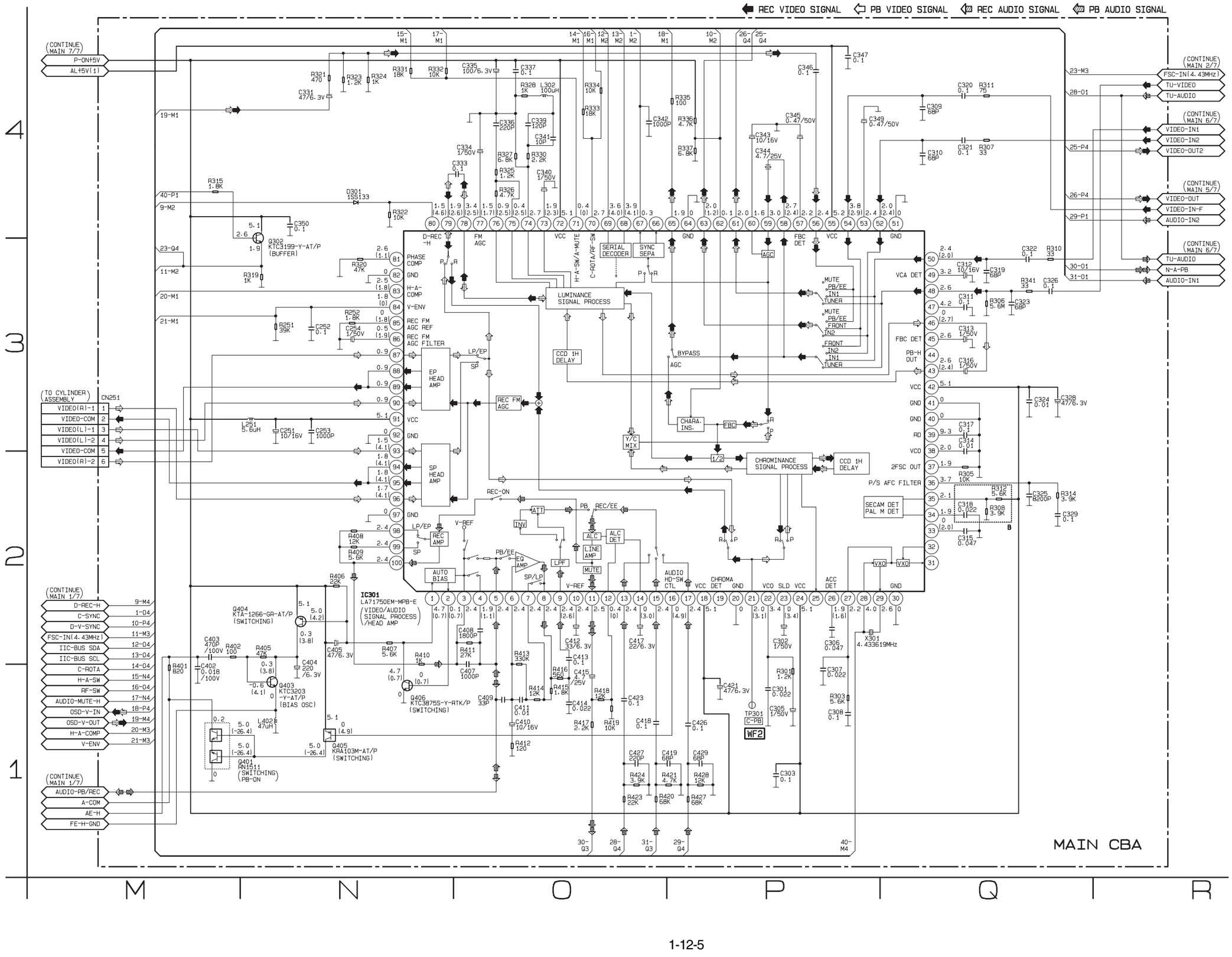
MODEL	MARK
D8A-M1000DB	A
D8D-M1000DB	B



Main 3/7 Schematic Diagram < VCR Section >

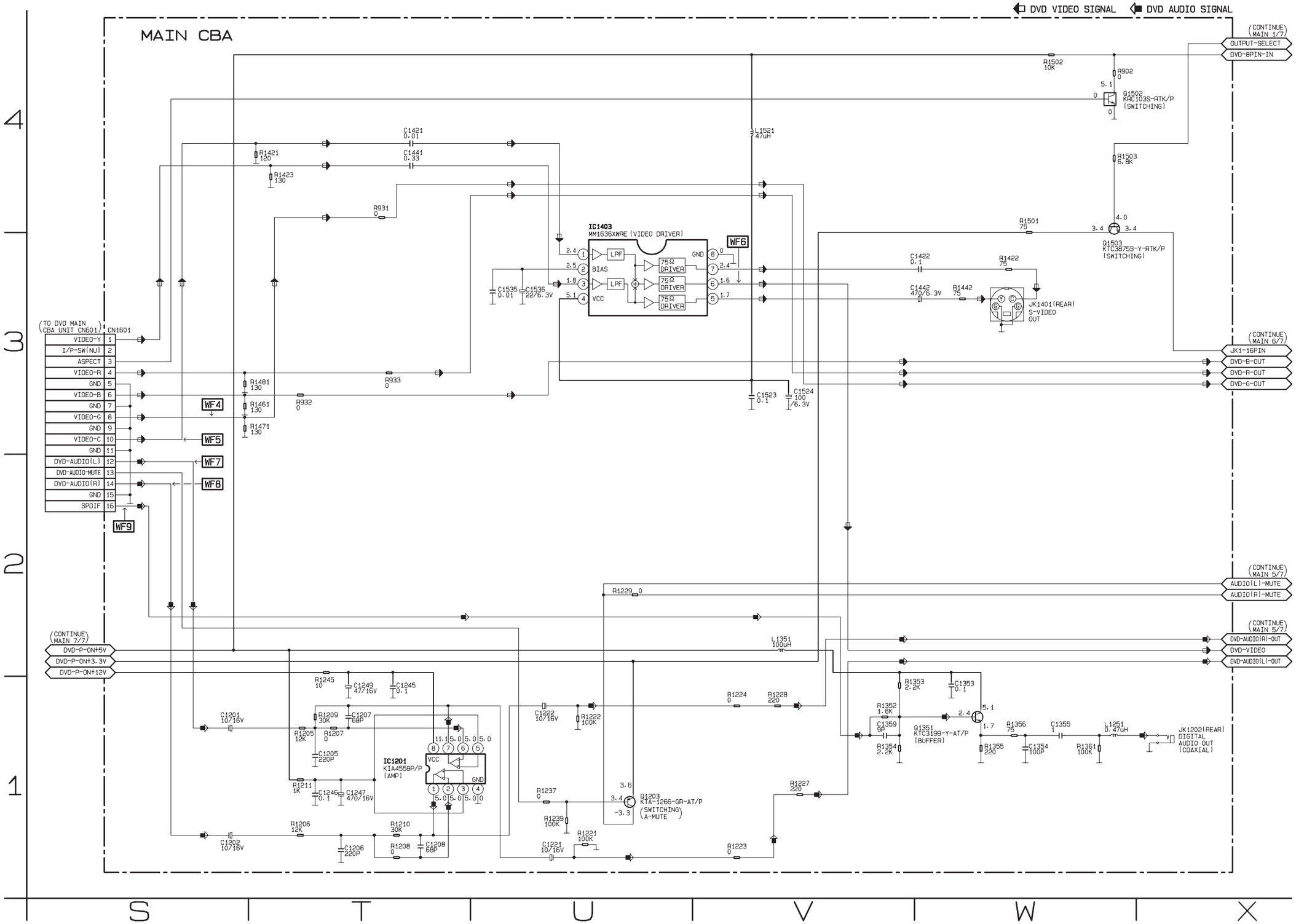
Comparison Chart of Models and Marks

MODEL	MARK
D8A-M1000DB	A
D8D-M1000DB	B

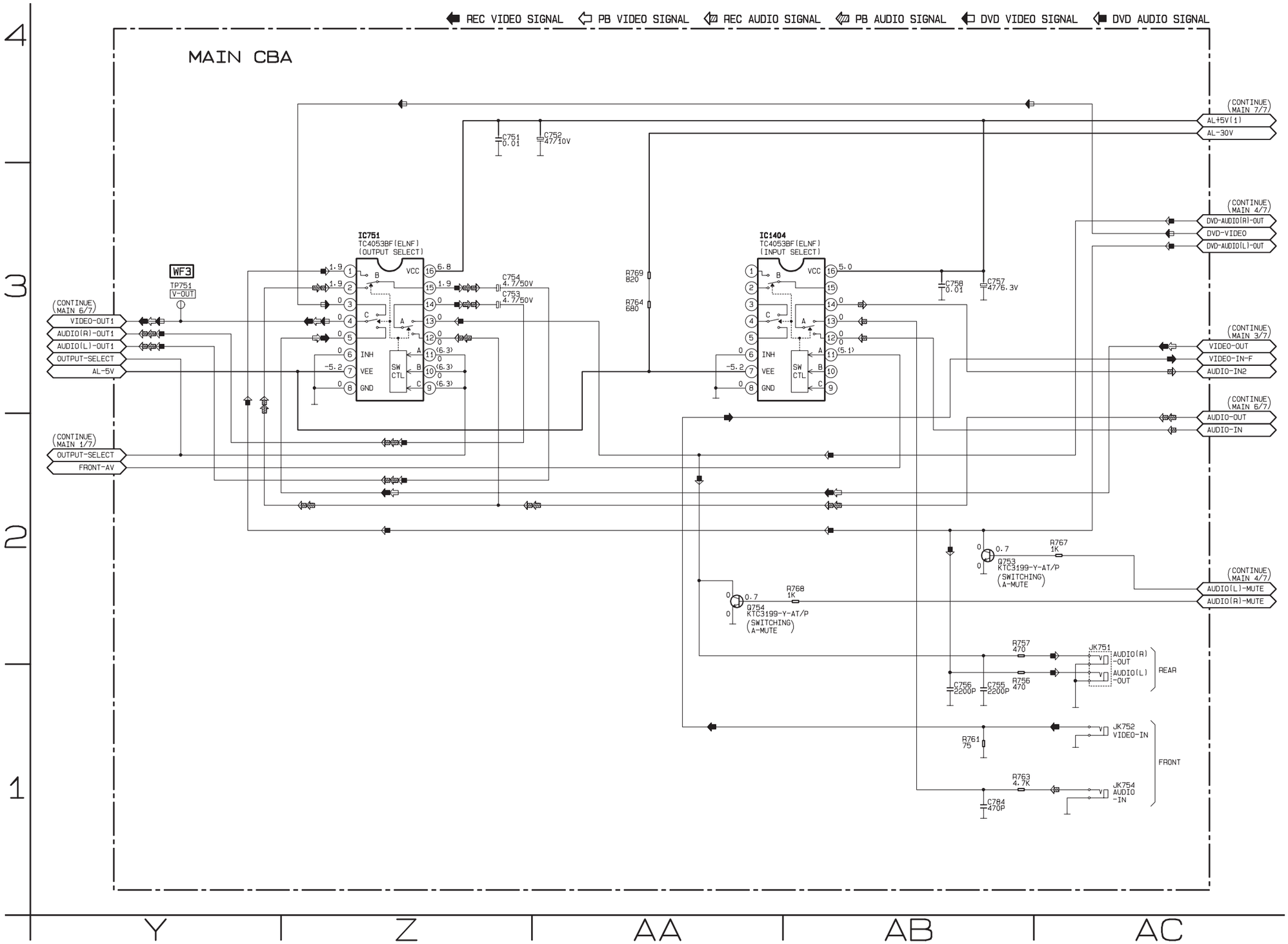


E8GA0SCM3

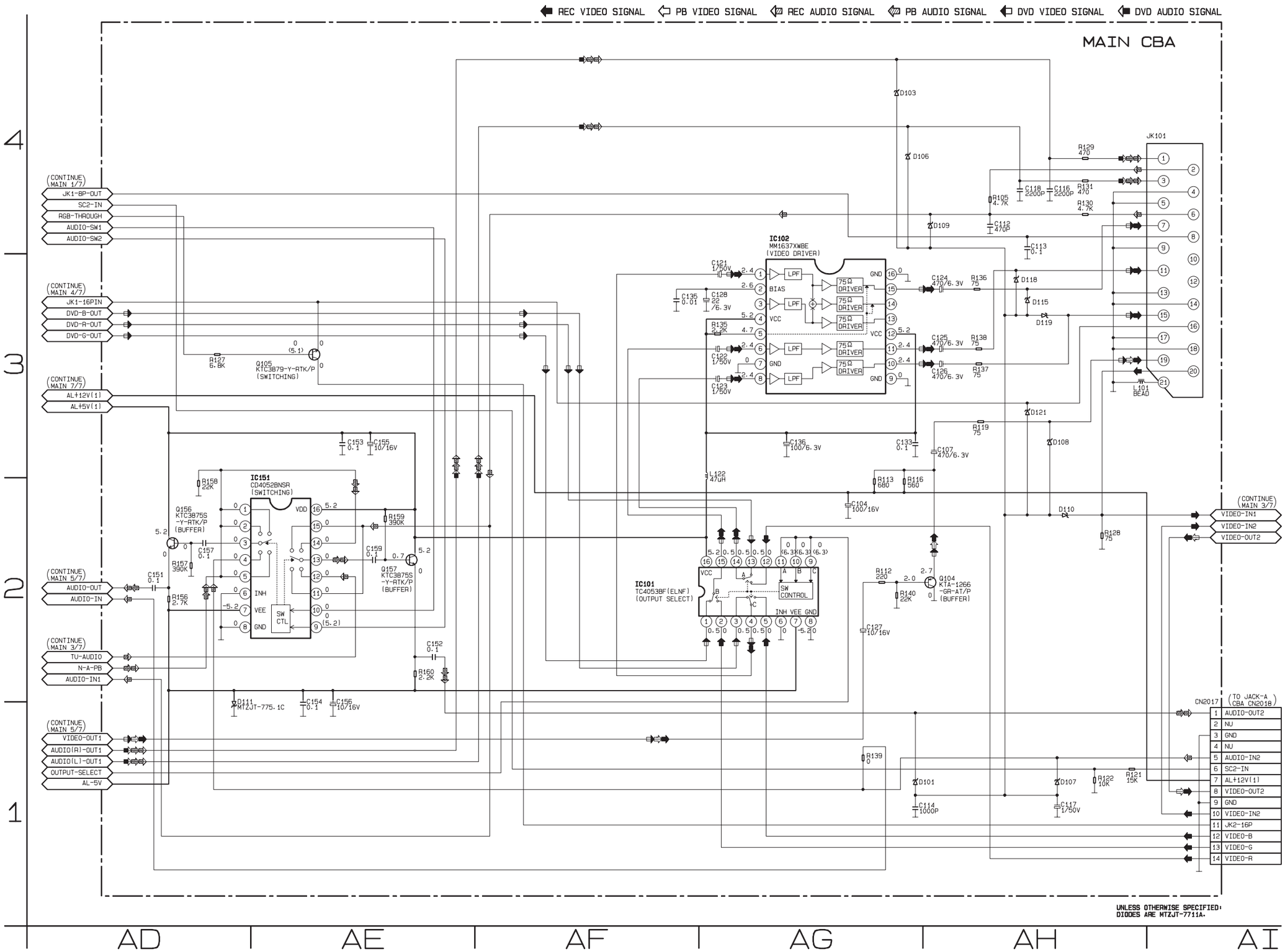
Main 4/7 Schematic Diagram < VCR Section >



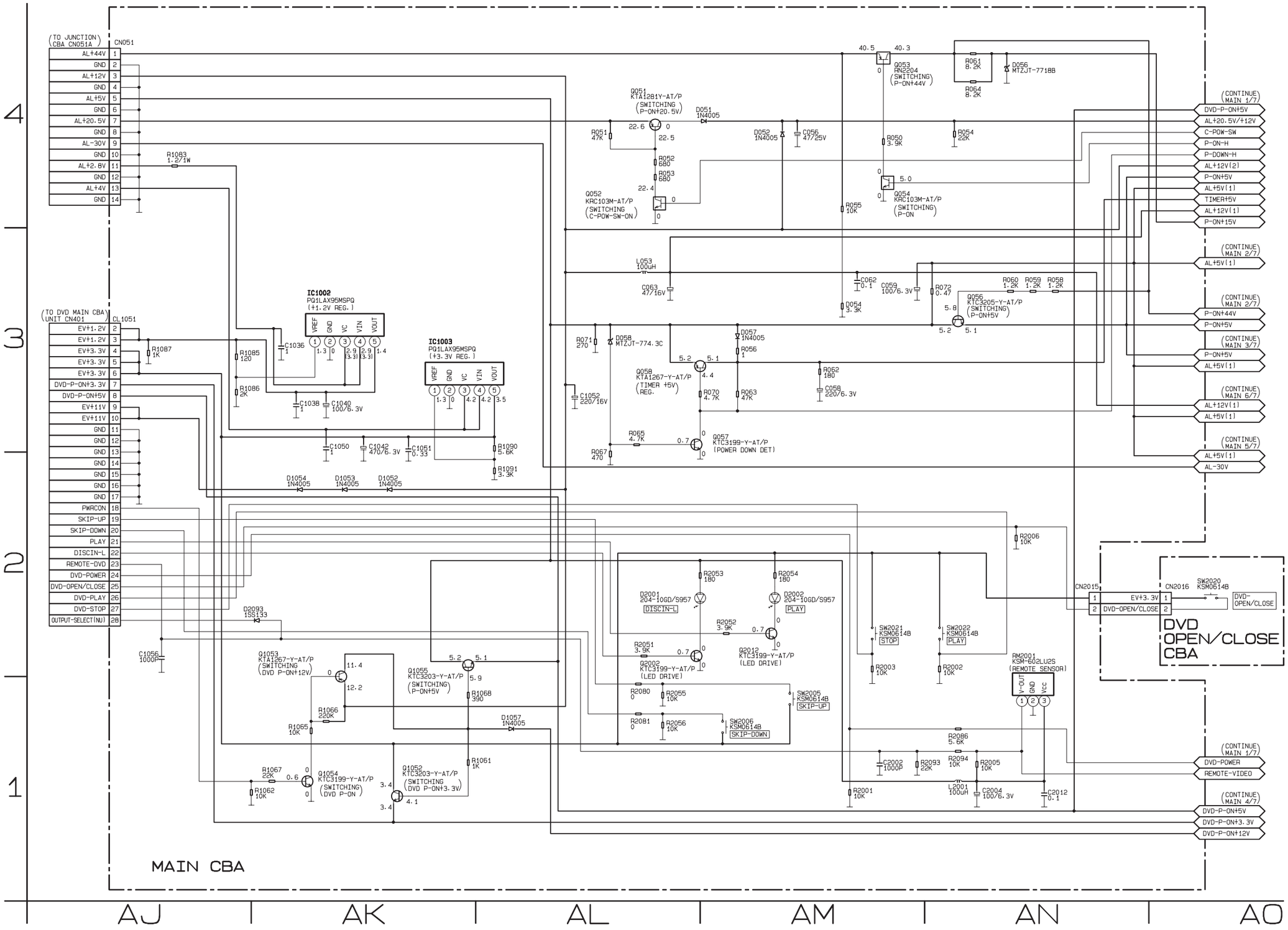
Main 5/7 Schematic Diagram < VCR Section >



Main 6/7 Schematic Diagram < VCR Section >



Main 7/7 & DVD Open/Close Schematic Diagram < VCR Section >

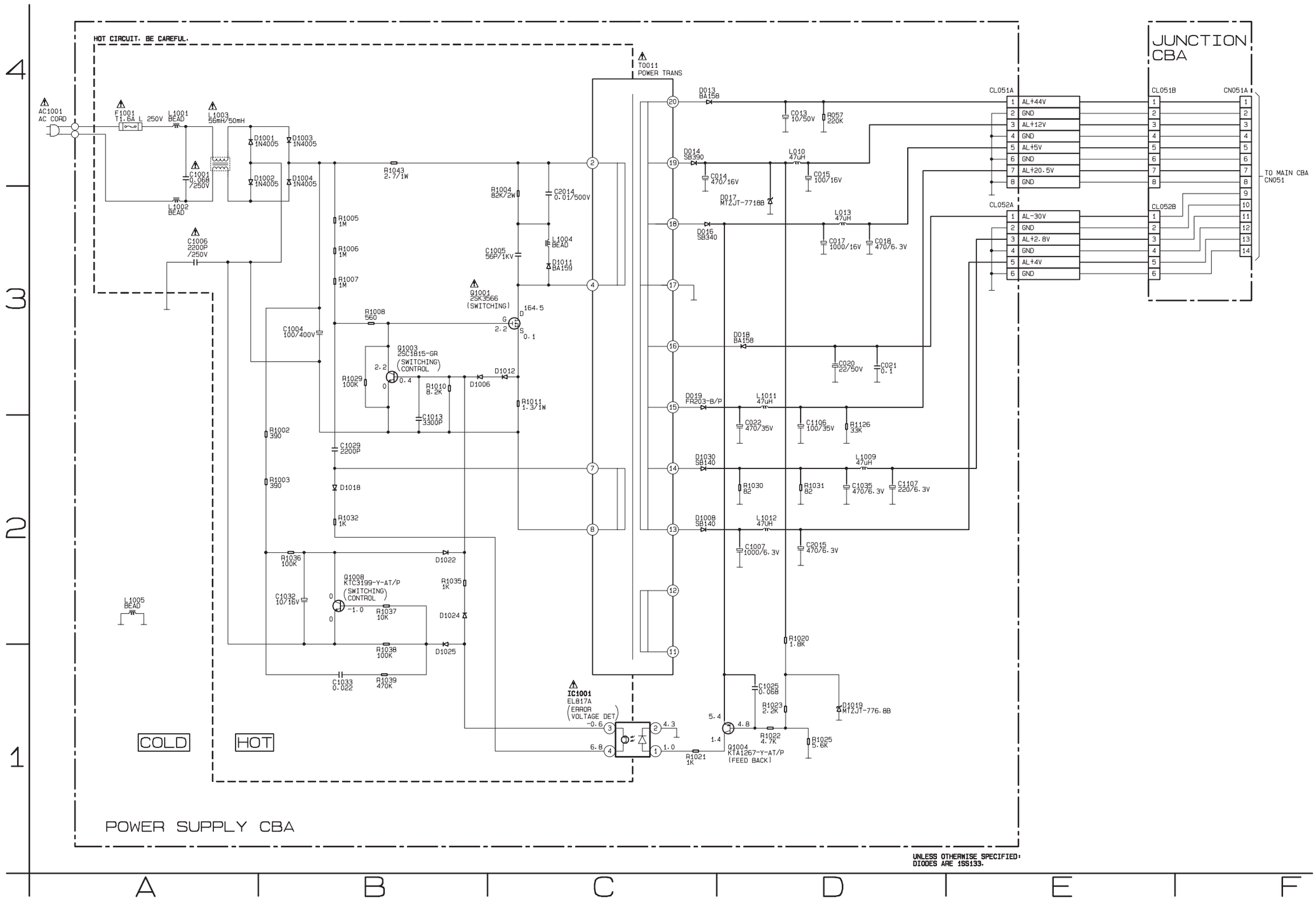


Power Supply & Junction Schematic Diagram < VCR Section >

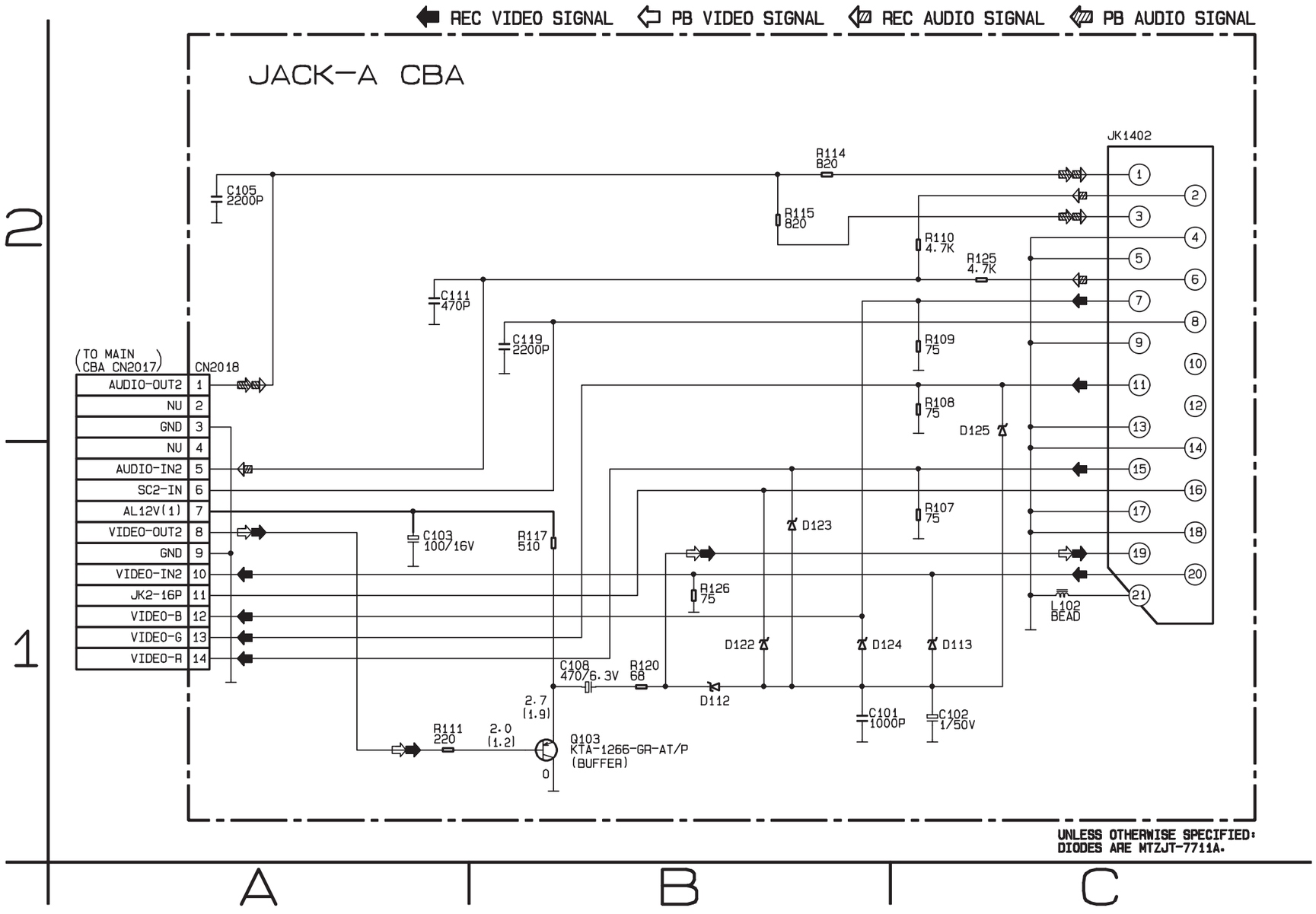
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

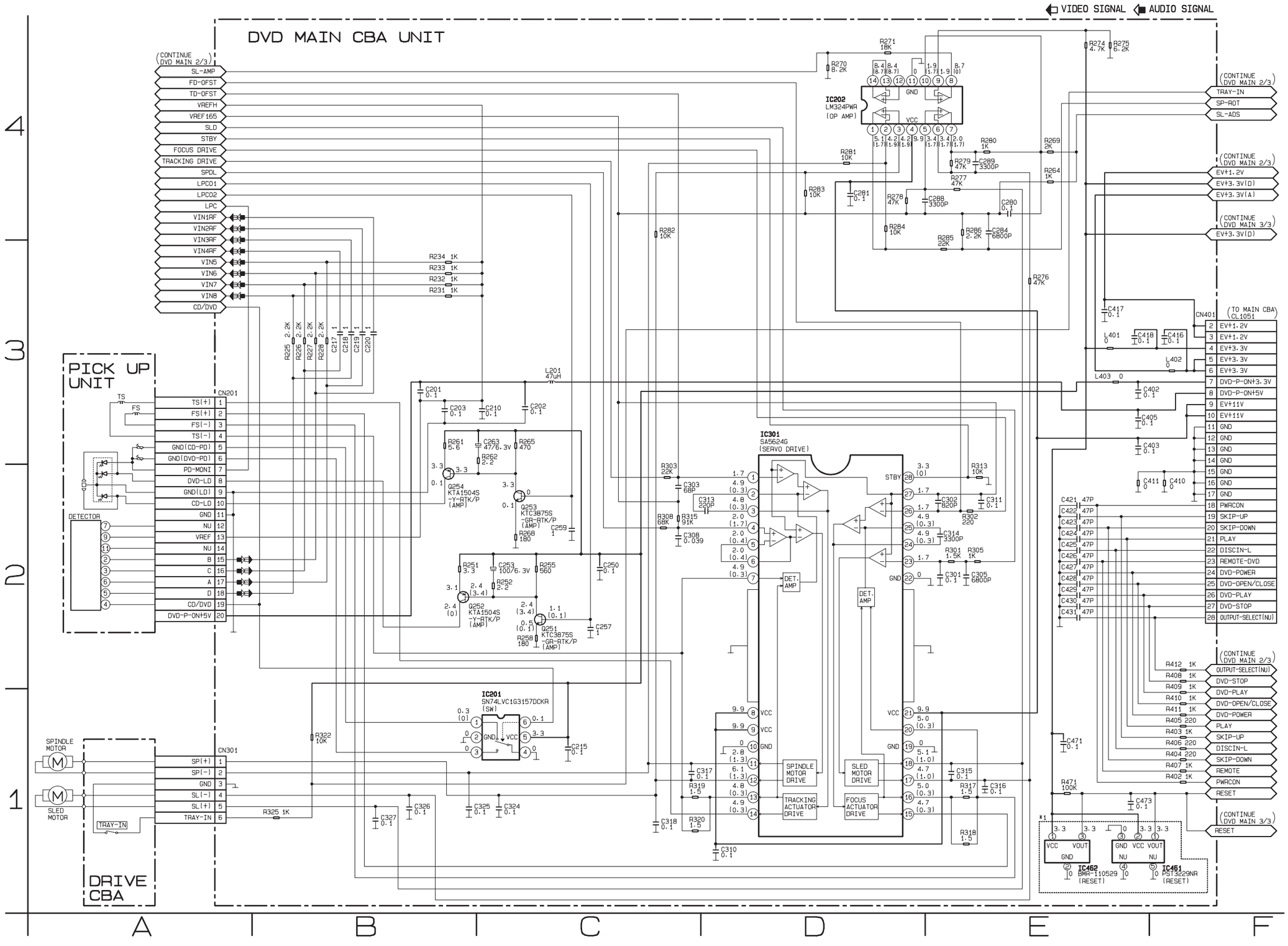


Jack - A Schematic Diagram < VCR Section >

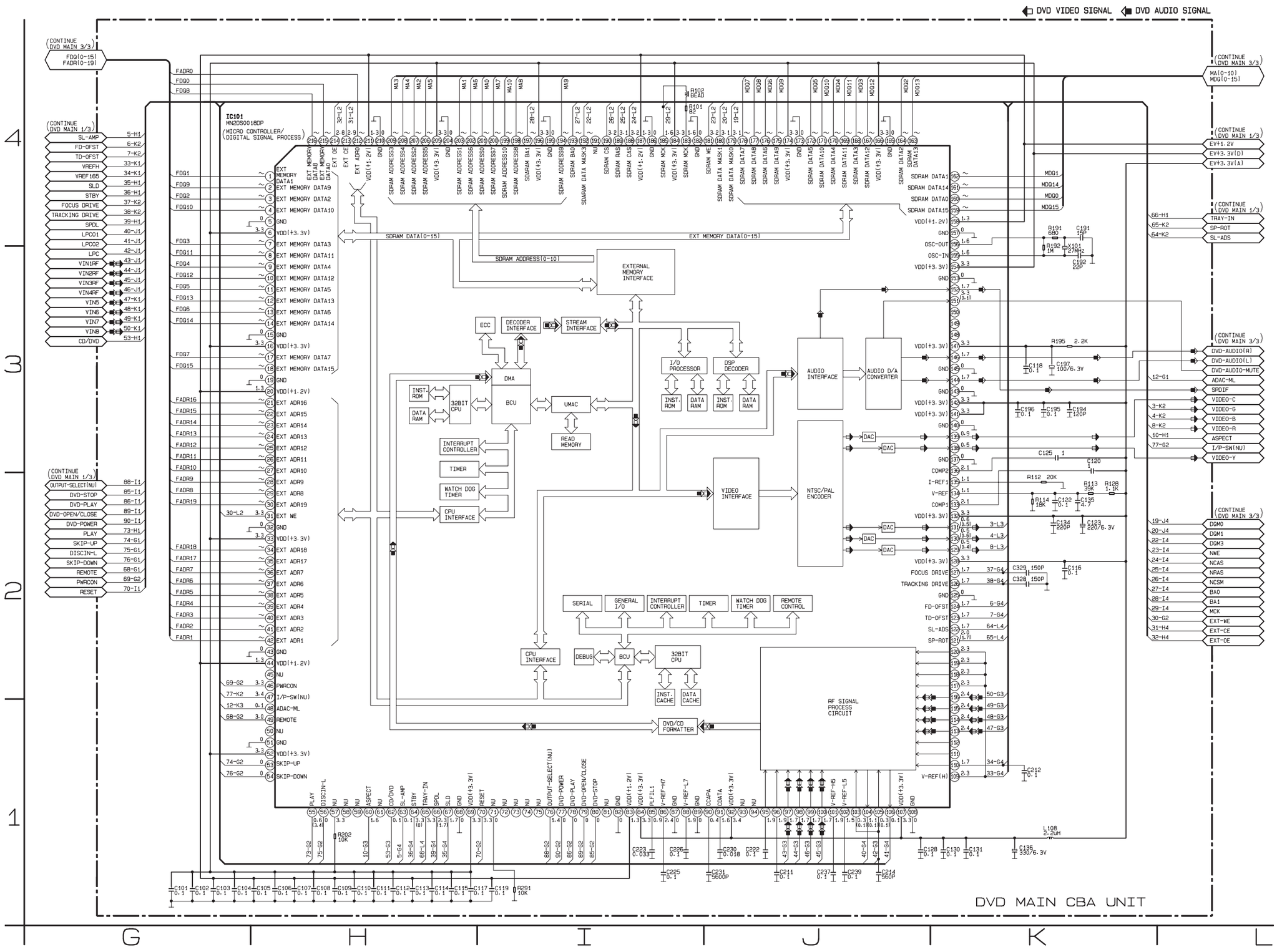


DVD Main 1/3 Schematic Diagram < DVD Section >

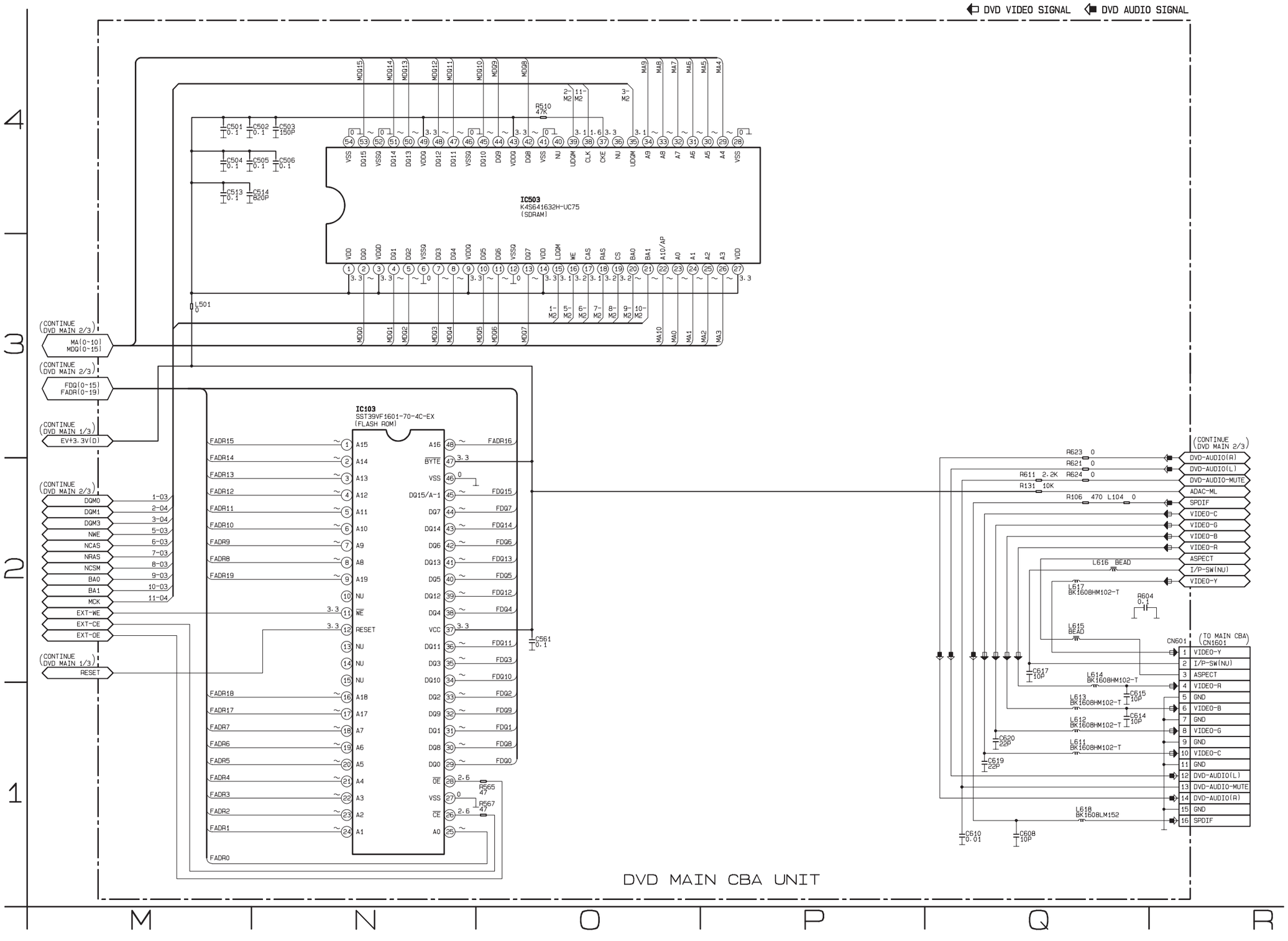
∗1 NOTE:
Either IC461 or IC462 is used for DVD MAIN CBA UNIT.



DVD Main 2/3 Schematic Diagram < DVD Section >

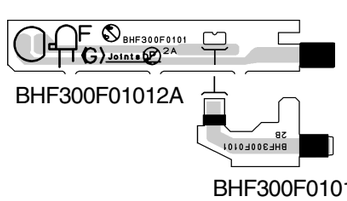


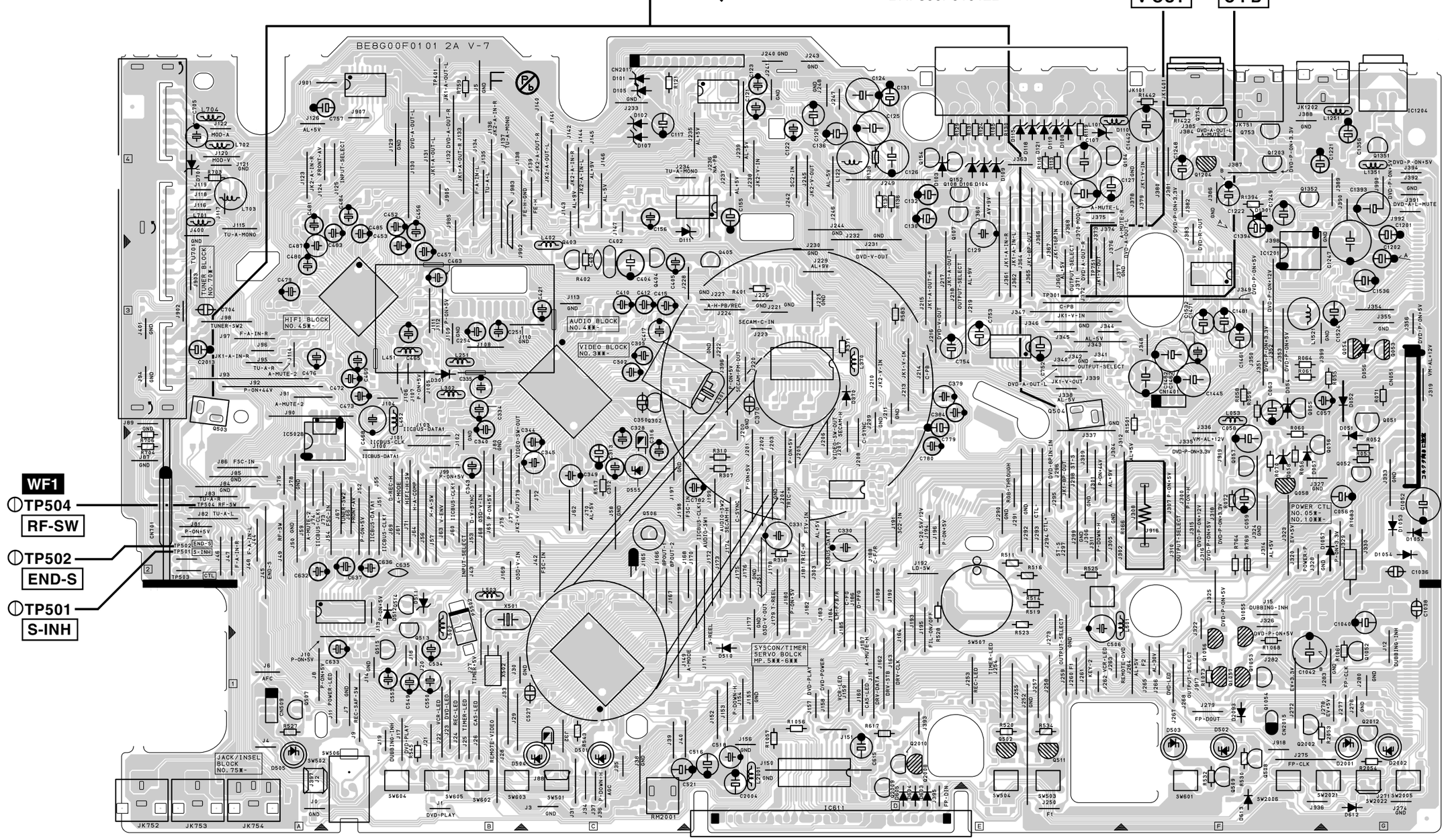
DVD Main 3/3 Schematic Diagram < DVD Section >



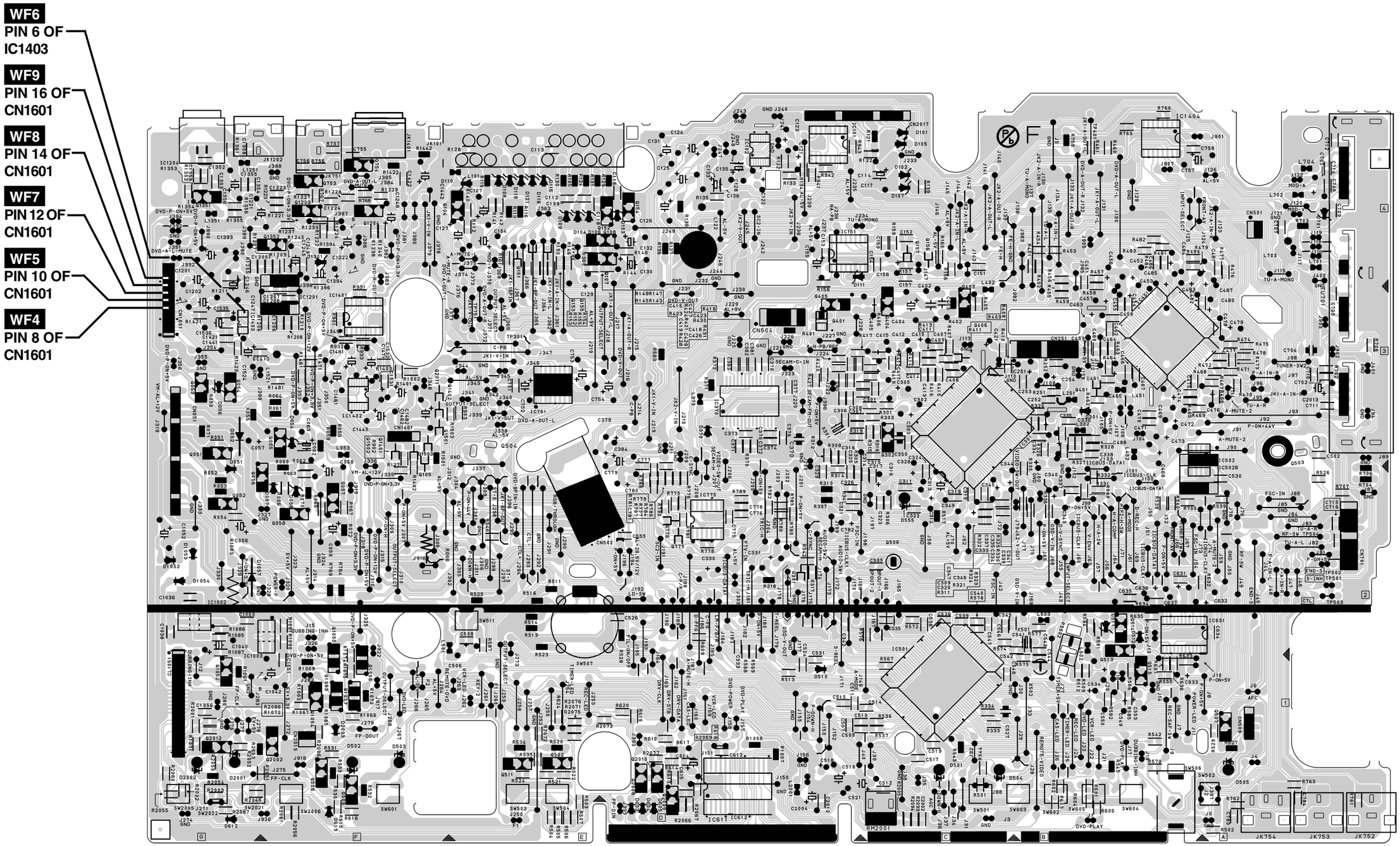
Main CBA Top View

Sensor CBA Top View



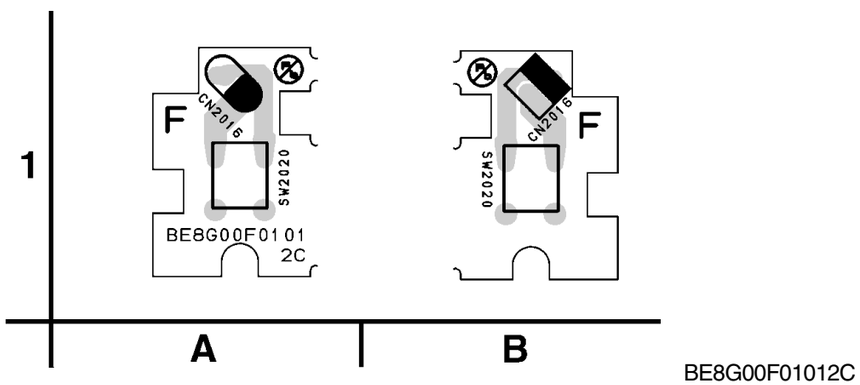


Main CBA Bottom View



DVD Open/Close
CBA Top View

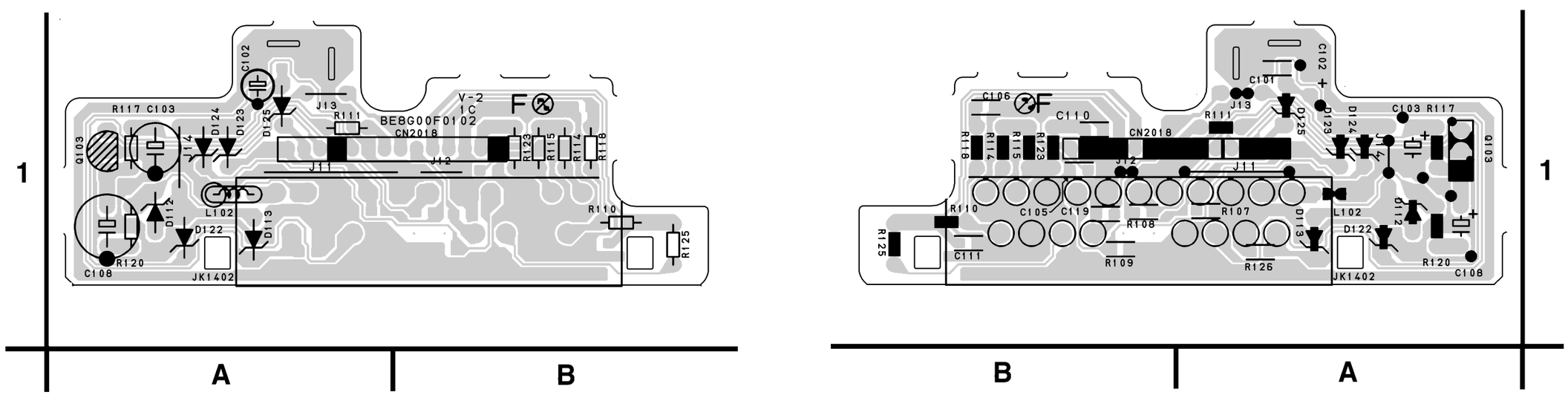
DVD Open/Close
CBA Bottom View



BE8G00F01012C

Jack -A CBA Top View

Jack -A CBA Bottom View



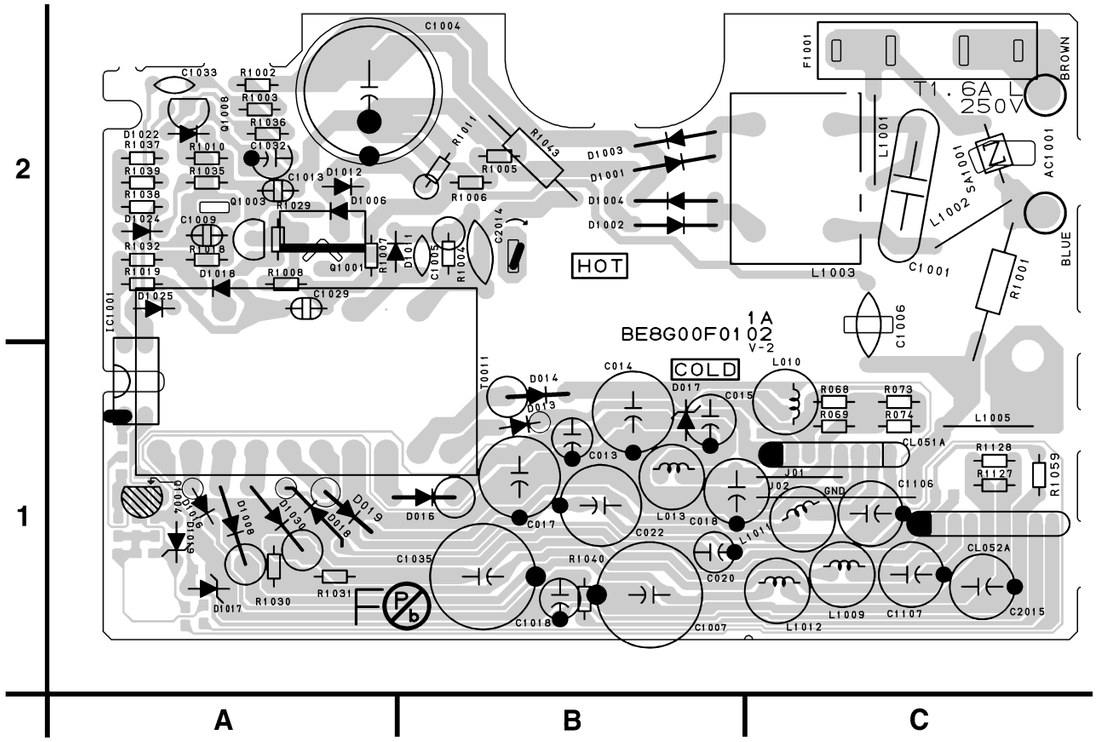
BE8G00F01021C

Power Supply CBA Top View

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

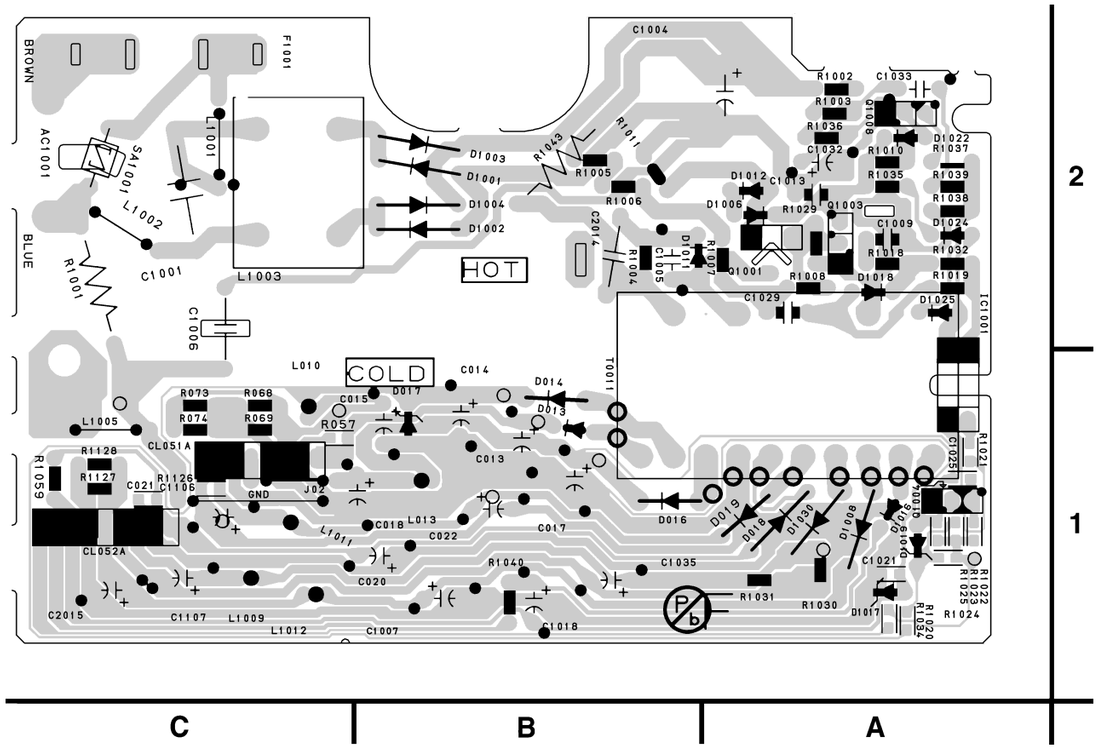
NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



Power Supply CBA Bottom View

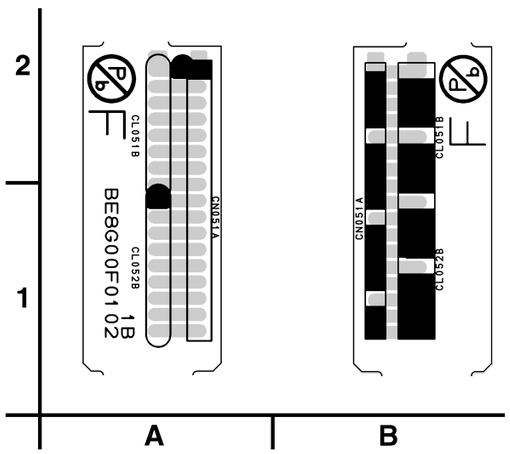
Because a hot chassis ground is present in the power supply circut, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.



BE8G00F01021A

Junction CBA Top View

Junction CBA Bottom View

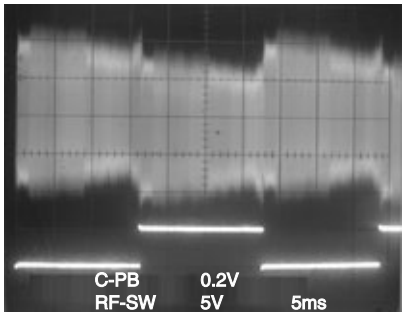


BE8G00F01021B

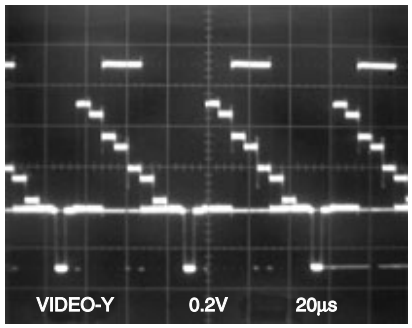
WAVEFORMS

NOTE:
Input
COLOR BAR SIGNAL (WITH 1KHz AUDIO SIGNAL)

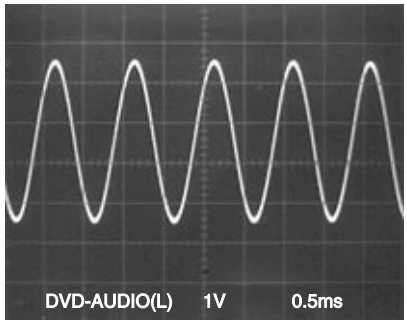
WF2 UPPER TP301
WF1 LOWER TP504



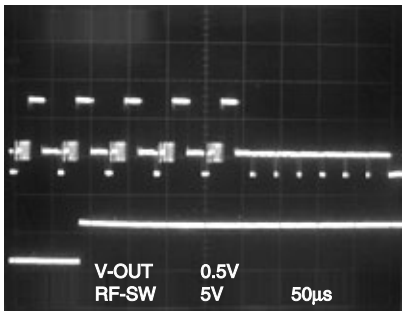
WF4 Pin 8 of CN1601



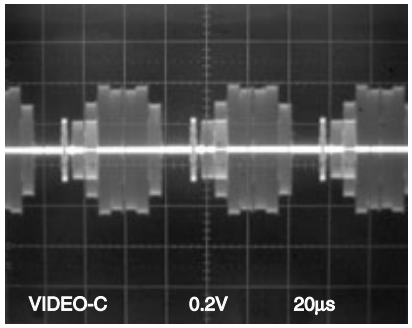
WF7 Pin 12 of CN1601



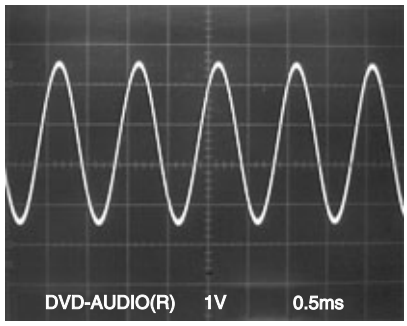
WF3 UPPER TP751
WF1 LOWER TP504



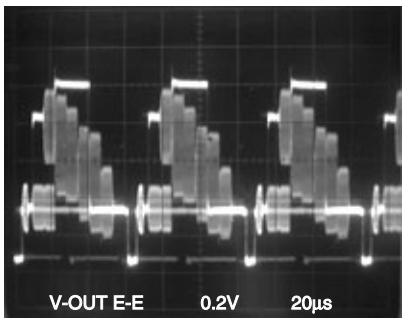
WF5 Pin 10 of CN1601



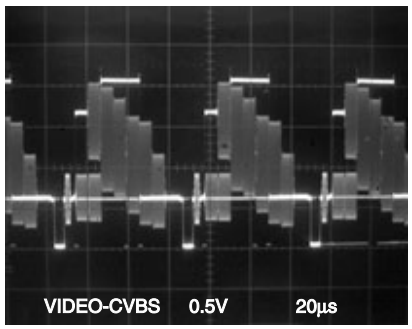
WF8 Pin 14 of CN1601



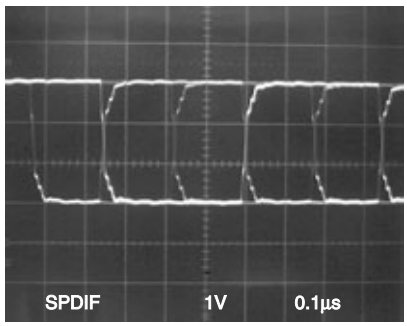
WF3 TP751



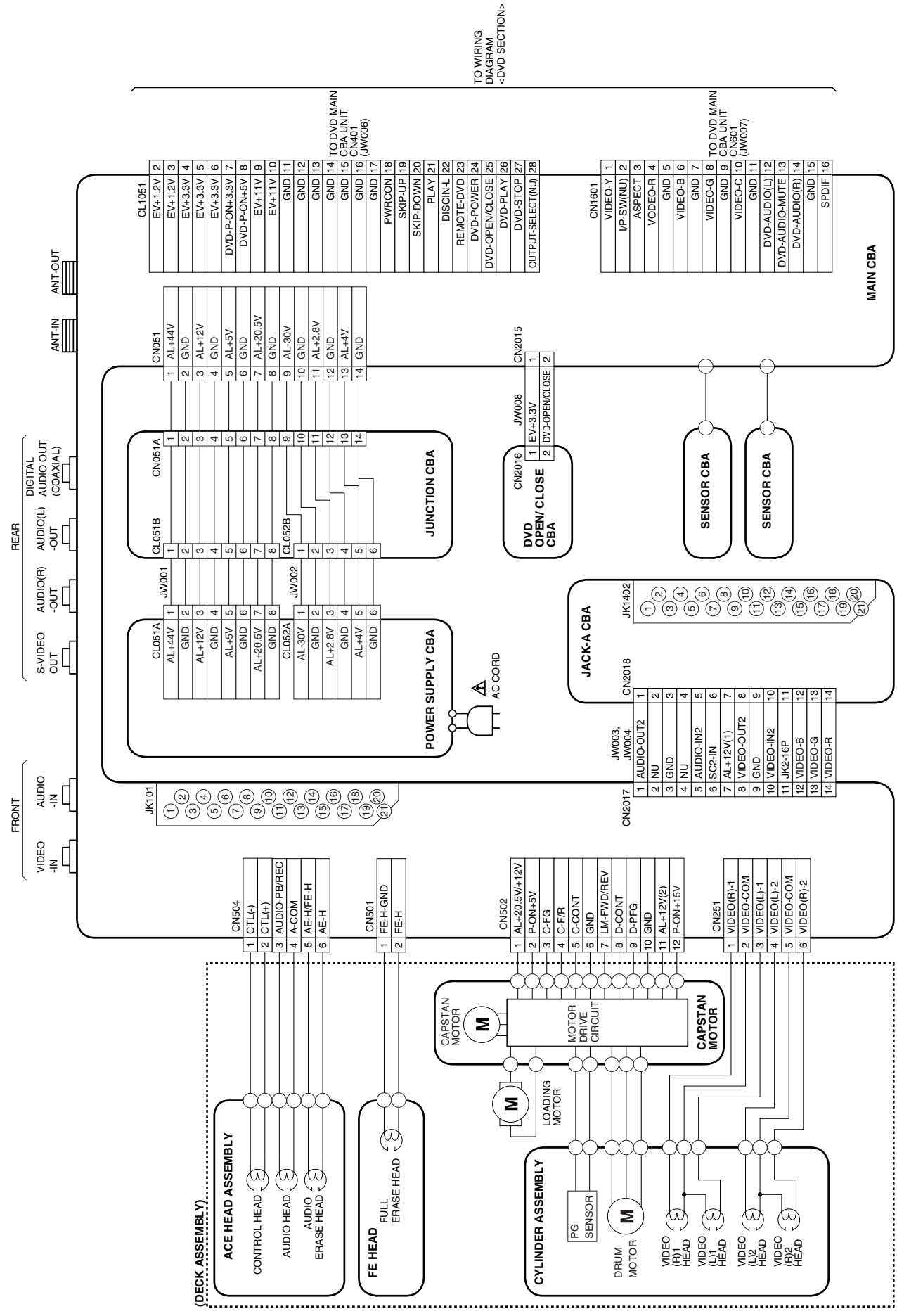
WF6 Pin 6 of IC1403



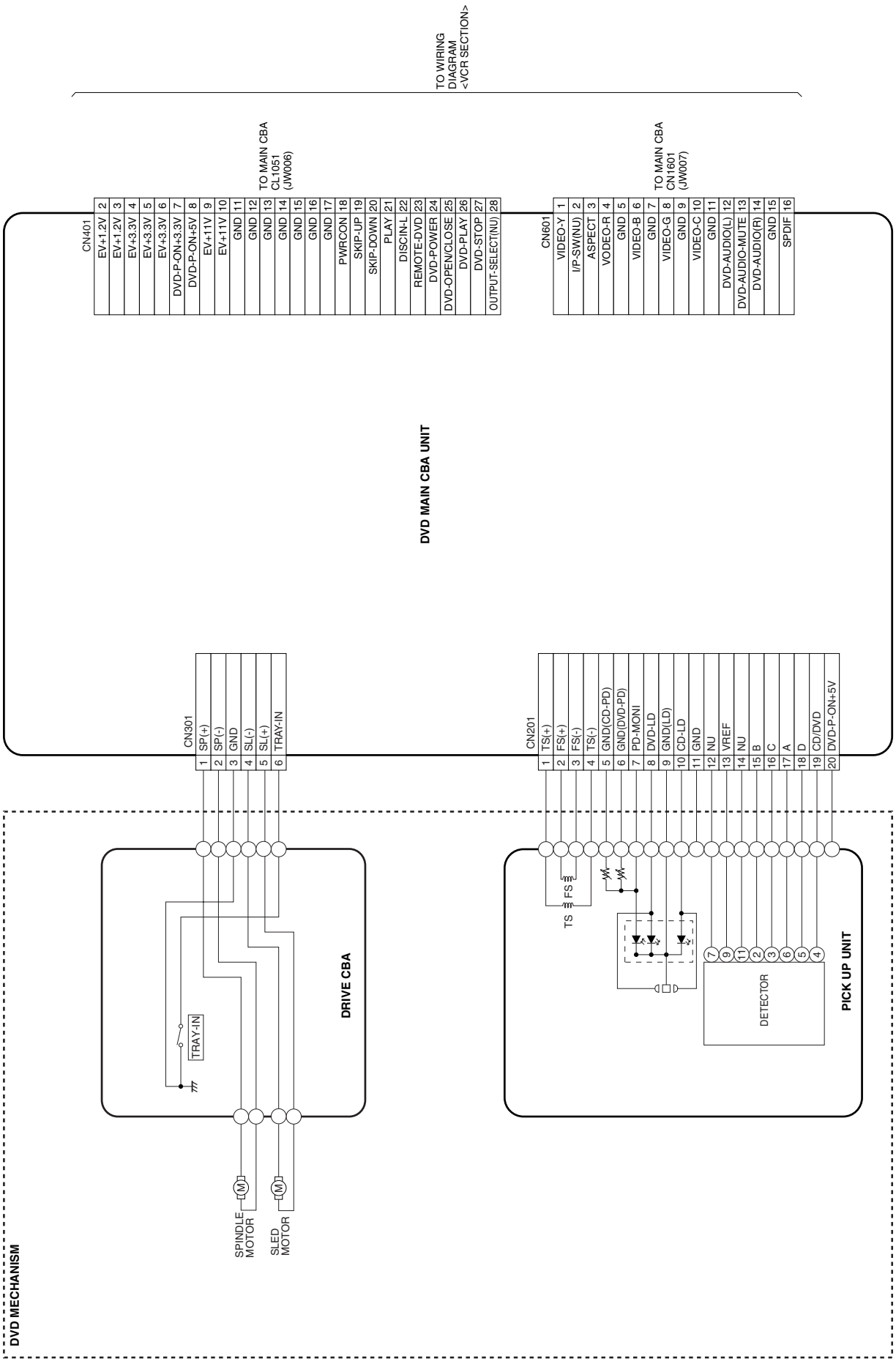
WF9 Pin 16 of CN1601



WIRING DIAGRAM < VCR SECTION >



WIRING DIAGRAM < DVD SECTION >



IC PIN FUNCTION DESCRIPTIONS

Comparison Chart of Models and Marks

Model	Mark
D8A-M1000DB	A
D8D-M1000DB	B

< VCR Section >

IC501(SERVO / SYSTEM CONTROL IC)

"H" ≥ 4.5V, "L" ≤ 1.0V

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
1		IN	SC2-IN	Input Signal from Pin 8 of SCART2	A/D
2		-	NU	Not Used	-
3		IN	POW-SAF	P-ON Power Detection Input Signal	A/D
4		IN	END-S	Tape End Position Detect Signal	A/D
5		IN	AFC	Automatic Frequency Control Signal	A/D
6		IN	V-ENV	Video Envelope Comparator Signal	A/D
7		IN	KEY-1	Key Scan Input Signal 1	A/D
8		IN	KEY-2	Key Scan Input Signal 2	A/D
9		IN	LD-SW	Deck Mode Position Detector Signal	A/D
10		IN	ST-S	Tape Start Position Detector Signal	A/D
11		-	NU	Not Used	-
12		-	NU	Not Used	-
13		OUT	D-V- SYNC	Dummy V-sync Output	H/Hi-z
14		IN	REMOTE	Remote Control Sensor	L
15		OUT	C-ROTA	Color Phase Rotary Changeover SIgnal	H/L
16		OUT	H-A-SW	Video Head Amp Switching Pulse	H/L
17		IN	H-A-COMP	Head Amp Comparator Signal	H/L
18		OUT	RF-SW	Video Head Switching Pulse	H/L
19		-	NU	Not Used	-
20		OUT	FRONT-AV	Front AV Output Signal	H/L
21		OUT	DVD-POWER	DVD Power Control Signal	H
22		OUT	TUNER-SW2	Tuner System Control Signal Output	H
23		OUT	POWER-LED	"POWER" LED Signal Output	H/L
24		-	NU	Not Used	-
25		OUT	TIMER-LED	TIMER LED Signal Output	H
26		OUT	REC-LED	Recording LED Control Signal	H
27		OUT	RGB THROUGH	SCART 2 RGB Through Control Signal	-
28		-	NU	Not Used	-
29		OUT	DVD-LED	"DVD" LED Signal Output	H/L
30		OUT	VCR-LED	"VCR" LED Signal Output	H/L
31		IN	REC-SAF-SW	Recording Safety SW Detect (With Record tab="L"/ With out Record tab="H")	H/L
32		IN	P-DOWN -H	Power Voltage Down Detector Signal	H
33		OUT	D-REC-H	Delayed Record Signal	H
34		IN	RESET	System Reset Signal (Reset="L")	L
35		IN	Xcin	Sub Clock	-
36		OUT	Xcout	Sub Clock	-

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
37		-	Vcc	Vcc	-
38		IN	Xin	Main Clock Input	-
39		OUT	Xout	Main Clock Input	-
40		-	GND	Vss(GND)	-
41		-	NU	Not Used	-
42		IN	DVD-8PIN-IN	SCART 8Pin DVD Input Control Signal	H/L
43		IN	CLKSEL	Clock Select (GND)	L
44		IN	OSCin	Clock Input for letter size	-
45		OUT	OSCout	Clock Output for letter size	-
46		-	NUB	Not Used	-
47		IN	LP	LP	-
48		IN	FSC-IN [4.43MHz]	4.43MHz Clock Input	-
49		-	OSDVss	OSDVss	-
50		IN	OSD-V-IN	OSD Video Signal Input	-
51		-	NU	Not Used	-
52		OUT	OSD-V-OUT	OSD Video Signal Output	-
53		-	OSDVcc	OSDVcc	-
54		-	HLF	LPF Connected Terminal (Slicer)	-
55	A	-	NU	Not Used	-
	B	IN	COLOR-IN	SECAM or MESECAM Chroma Video Input Signal at Super Impose	Z/L
56		-	NU	Not Used	-
57		-	NU	Not Used	-
58		IN	C-SYNC	Composite Synchronized Pulse	PULSE
59		OUT	8POUT-1	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2	H/L
60		OUT	8POUT-2	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2	Hi-z/L
61		-	NU	Not Used	-
62		OUT	AUDIO-SW1	Audio IN/ OUT Control Signal	H/L
63		OUT	AUDIO-SW2	Audio IN/ OUT Control Signal	H/L
64		-	NU	Not Used	-
65		-	NU	Not Used	-
66		OUT	C-POW-SW	Capstan Power Switching Signal	H/L
67		OUT	P-ON-H	Power On Signal at High	H
68		-	NU	Not Used	-
69		-	NU	Not Used	-
70		-	NU	Not Used	-
71		OUT	IIC-BUS-SCL	IIC BUS Control Clock	H/L
72		IN/ OUT	IIC-BUS-SDA	IIC BUS Control Data	H/L
73		-	NU	Not Used	-
74		-	NU	Not Used	-
75		IN	DVD-POWER-MONITOR	DVD Power Monitor Signal (P-off="L", P-on="H")	H/L
76		OUT	C-CONT	Capstan Motor Control Signal	PWM
77		OUT	D-CONT	Drum Motor Control Signal	PWM
78		OUT	C-F/R	Capstan Motor FWD/ REV Control Signal (FWD="L"/ REV="H")	H/L
79		IN	S-REEL	Supply Reel Rotation Signal	PULSE
80		IN	T-REEL	Take Up Reel Rotation Signal	PULSE

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
81		OUT	LM-FWD/ REV	Loading Motor Control Signal	H/L/ Hi-z
82		OUT	OUTPUT-SELECT	Output Select	H/L
83		OUT	AUDIO-MUTE-H	Audio Mute Control Signal (Mute = “H”)	H
84		-	NU	Not Used	-
85		-	NU	Not Used	-
86		-	NU	Not Used	-
87		IN	C-FG	Capstan Motor Rotation Detection Pulse	PULSE
88		-	NU	Not Used	-
89		-	NU	Not Used	-
90		IN	D-PFG	Drum Motor Phase/ Frequency Generator	PULSE
91		-	AMPVREF OUT	V-Ref for CTL AMP	-
92		-	AMPVREF in	V-Ref for CTL AMP	-
93		-	P80/C	P80/C Terminal	-
94		IN/ OUT	CTL (-)	Playback/ Record Control Signal (-)	H/L
95		IN/ OUT	CTL (+)	Playback/ Record Control Signal (+)	H/L
96		-	AMPC	CTL AMP Connected Terminal	-
97		-	CTL	To Monitor for CTL AMP Output	PULSE
98		-	AMPVcc	AMPVcc	-
99		-	AVcc	A/D Converter Power Input/ Standard Voltage Input	-
100		IN	AGC	IF AGC Comparator Signal	A/D

Notes:

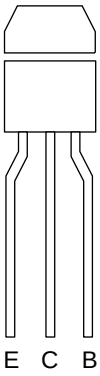
Abbreviation for Active Level:

PWM -----Pulse Wide Modulation

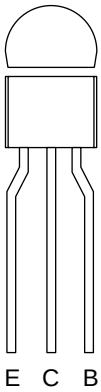
A/D--------Analog - Digital Converter

LEAD IDENTIFICATIONS

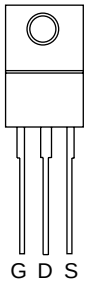
KRA103M-AT/P
KRC103M-AT/P
KTA1267-(GR,Y)-AT/P
KTA1281Y-AT/P
KTC3199-(BL,GR,Y)-AT/P
RN2204(TE4 F T)



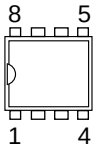
2SA1015-GR(TE2 F T)
2SA1020-Y(TE6 F M)
2SA1815-(BL,GR,Y)(TE2 F T)
2SC2120-Y(TE2 F T)
2SC3266-Y(TPE2 F)
KTA1266-GR-AT/P
KTC3203-Y-AT/P
KTC3205-Y-AT/P



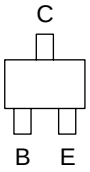
2SK3566
SPA02N80C3



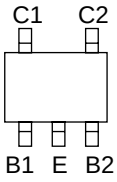
KIA4558P/P
UTC4558
RC4580IP



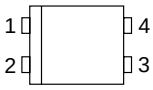
KRC103S-RTK/P
KTC3875S-Y-RTK/P
KTC3879-Y-RTK/P



FMG4A T148
RN1511(TE85R.F)

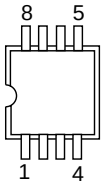


EL817A
EL817B
PS2561A-1(Q,W)

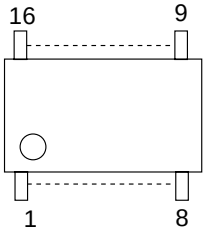


1: Anode
2: Cathode
3: Emitter
4: Collector

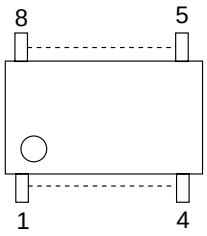
BR24L02F-WE2
CAT24WC02WI-TE13



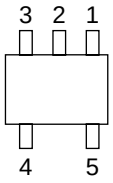
MM1637XVBE



MM1636XWRE

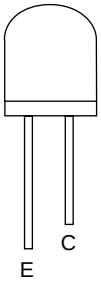


PQ1LAX95MSPQ



1: VREF
2: GND
3: VC
4: VIN
5: VOUT

MID-32A22F
PT204-6B-12



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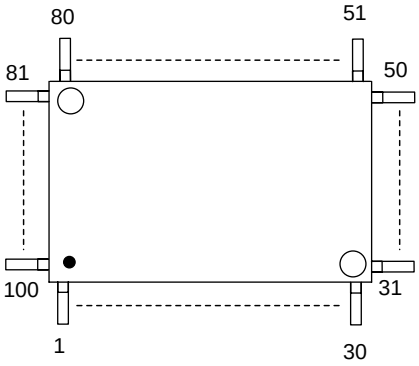
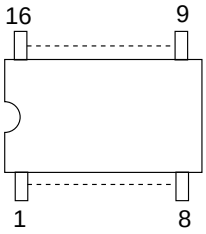
M3776AMCH-AG6GP



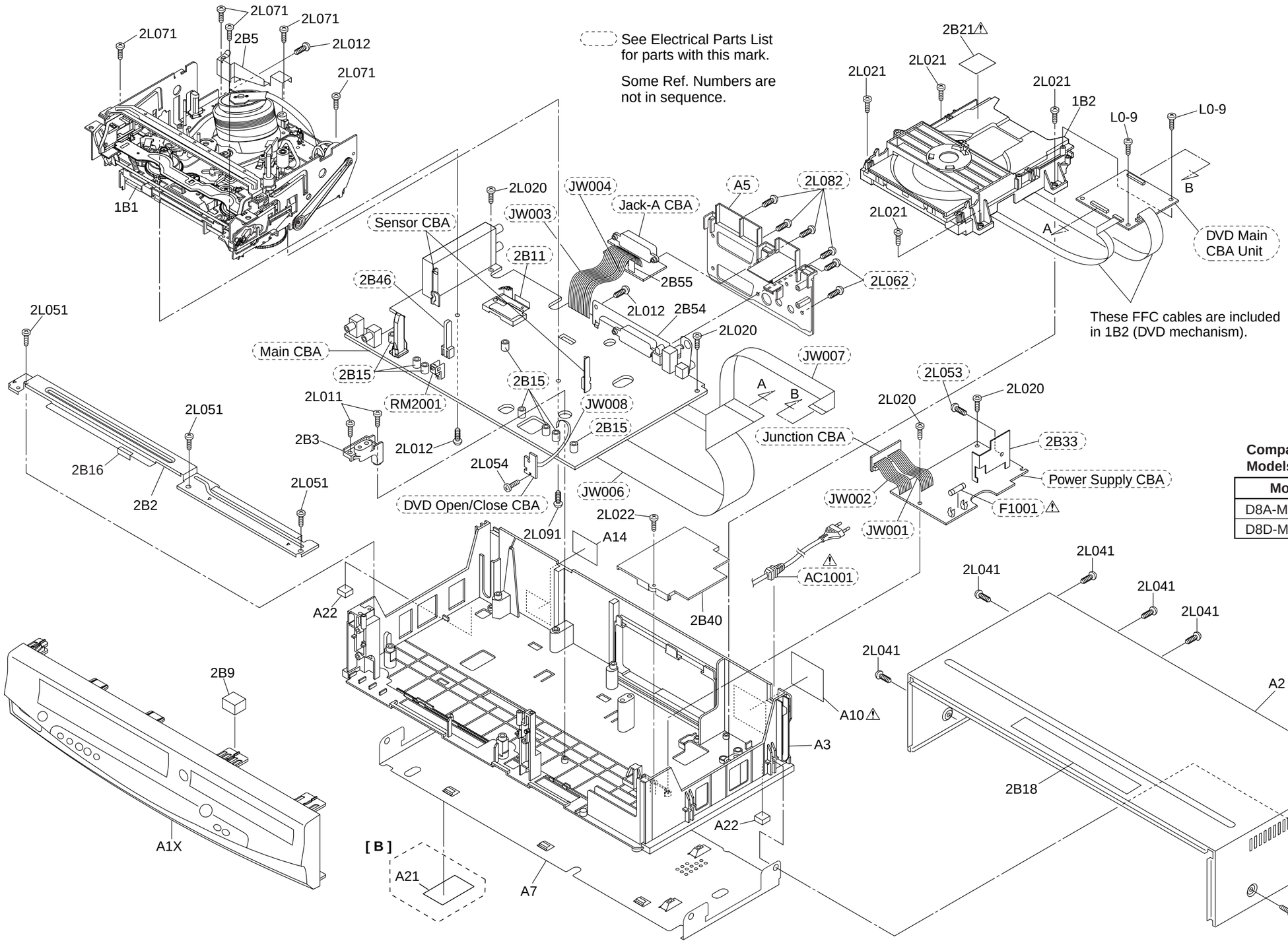
CD4052BCSJX_NL
CD4052BNSR
CD4053BCSJX_NL
CD4053BNSR
TC4052BF(ELNF)
TC4053BF(EL N F)



Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
S: Source
G: Gate
D: Drain

EXPLODED VIEWS

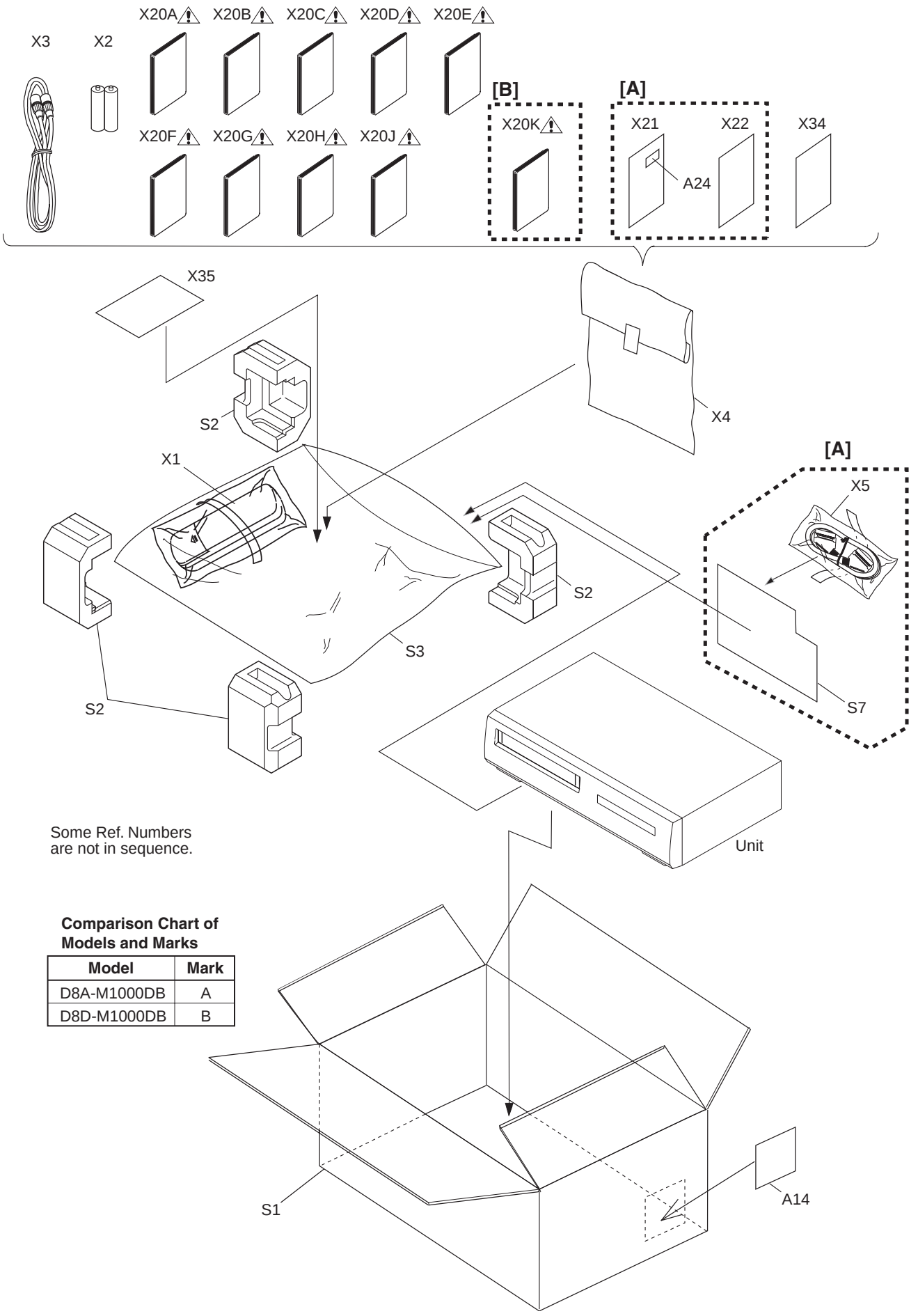
Cabinet



Comparison Chart of Models and Marks

Model	Mark
D8A-M1000DB	A
D8D-M1000DB	B

Packing



Some Ref. Numbers are not in sequence.

Comparison Chart of Models and Marks

Model	Mark
D8A-M1000DB	A
D8D-M1000DB	B

MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (---------) are not available.

Comparison Chart of Models and Marks

Model	Mark
D8A-M1000DB	A
D8D-M1000DB	B

Ref. No.	Mark	Description	Part No.
A1X		FRONT ASSEMBLY E8GA0ED	1VM222904
A2		TOP CASE(BLACK) E8G00ED	1VM323682
A3		CHASSIS(BLACK) E8G00ED	1VM222891
A7		BOTTOM PANEL H992URD	1VM321771
A10⚠	A	RATING LABEL E8GA0ED	---------
A10⚠	B	RATING LABEL E8GA4ED	---------
A14		BARCODE LABEL UNFIGURE E9704ED	---------
A14	A	BAR CODE LABEL E8GA0ED	---------
A14	B	BAR CODE LABEL E8GA4ED	---------
A21	B	WARNING LABEL HG249ED	---------
A22		CHASSIS FOOT H79P9JD	0VM412315
A24	A	LABEL SERIAL NO. E5441JD or	---------
	A	LABEL SERIAL NO. E5705JD	---------
1B1		DECK ASSEMBLY CZD014/VM25C0	N25C0FL
1B2		DVD MECHA E7 N79F0KVM	N79F0KVM
2B2		TOP BRACKET H9700ED	0VM204531
2B3		LOADER HOLDER H9600UD	0VM306676
2B5		SHEILD CYLINDER H9700ED	0VM306780
2B9		CUSHION HC460ED	0VM413251
2B16		TAPE HIMELON H9206JD	0VM413956
2B18		FIBER TOP CASE HC460ED	0VM412906
2B21⚠		LASER CAUTION LABEL H9900ED	---------
2B40		PARTITION PLATE E8B00ED	1VM424064
2B54		PLATE GROUND(RCA) H9700ED	0VM306867
2B55		PLATE GROUND(21P) H9700ED	0VM416444
2L011		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
2L012		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
2L020		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
2L021		SCREW P-TIGHT M3*12 BIND+	GBJP3120
2L022		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
2L041		SCREW P-TIGHT M3X6 BIND HEAD+ BLK	GBHP3060
2L051		SCREW P-TIGHT M3X6 BIND HEAD+	GBJP3060
2L054		SCREW P-TIGHT M3X6 BIND HEAD+	GBJP3060
2L071		SCREW P-TIGHT M3*10 WASHERHEAD+	GCJP3100
2L091		SCREW P-TIGHT M3X8 BIND HEAD+	GBCP3080
L0-9		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
PACKING			
S1	A	GIFT BOX CARTON E8GA0ED	1VM323751
S1	B	GIFT BOX CARTON E8GA4ED	1VM323761
S2		STYROFOAM H9600UD	0VM204474E
S3		UNIT BAG E5500UD	0VM411683
S7	A	21P PAD HC463FD	0VM413384
ACCESSORIES			
X1		REMOTE CONTROL UNIT NB665ED	NB665ED
X2		DRY BATTERY R6P/2S or	XB0M451T0001
		DRY BATTERY R6UW/2S or	XB0M311MS001
		DRY BATTERY ES-GR6M-C	XB0M571GLP01
X3		RF CORD PAL 1.2M or	WPZ0122LG001
		RF CABLE CC1001020012010	WPZ0122LW001
X4		ACCESSORY BAG E5795ED	0VM416059
X5	A	WIRE ASSEMBLY SCART CABLE CE1013020121410	WX1E8G00-111
X20A⚠	A	OWNERS MANUAL(NO) E8GA0ED	1VMN23483
X20A⚠	B	OWNERS MANUAL(HU) E8GA4ED	1VMN23504
X20B⚠	A	OWNERS MANUAL(SV) E8GA0ED	1VMN23484
X20B⚠	B	OWNERS MANUAL(SK) E8GA4ED	1VMN23505
X20C⚠	A	OWNERS MANUAL(FI) E8GA0ED	1VMN23485
X20C⚠	B	OWNERS MANUAL(EN) E8GA4ED	1VMN23506
X20D⚠	A	OWNERS MANUAL(DA) E8GA0ED	1VMN23486
X20D⚠	B	OWNERS MANUAL((DE) E8GA4ED	1VMN23507
X20E⚠	A	OWNERS MANUAL(ES) E8GA0ED	1VMN23487
X20E⚠	B	OWNERS MANUAL(PL) E8GA4ED	1VMN23508
X20F⚠	A	OWNERS MANUAL(PT) E8GA0ED	1VMN23488
X20F⚠	B	OWNERS MANUAL(CS) E8GA4ED	1VMN23509
X20G⚠	A	OWNERS MANUAL(DE) E8GA0ED	1VMN23489
X20G⚠	B	OWNERS MANUAL(RU) E8GA4ED	1VMN23510
X20H⚠	A	OWNERS MANUAL(IT) E8GA0ED	1VMN23490
X20H⚠	B	OWNERS MANUAL(AR) E8GA4ED	1VMN23511
X20J⚠	A	OWNERS MANUAL(EL) E8GA0ED	1VMN23491
X20J⚠	B	OWNERS MANUAL(RO) E8GA4ED	1VMN23512
X20K⚠	B	OWNERS MANUAL(BG) E8GA4ED	1VMN23513
X21	A	WARRANTY CARD(EL) E8GA0ED	1VMN23492
X22	A	SERVICE CENTER LIST HC2C0ED	0VMN03071D
X34		POST CARD E8G00ED	1VMN23493
X35	A	HANDBILL E8G00ED	1VMN23494
X35	B	HANDBILL E8G04ED	1VMN23558

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%

G.....±2% J.....±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

Comparison Chart of Models and Marks

Model	Mark
D8A-M1000DB	A
D8D-M1000DB	B

DVD MAIN CBA UNIT

Ref. No.	Mark	Description	Part No.
	A B	DVD MAIN CBA UNIT DVD MAIN CBA UNIT	N7CG9KEP N7CG5KEP

MCV CBA

Ref. No.	Mark	Description	Part No.
	A B	MCV CBA MCV CBA Consists of the following	1VSA15600 1VSA15607
		MAIN CBA (MCV-A) DVD OPEN/CLOSE CBA (MCV-C) SENSOR CBA	---------- ---------- 1VSA10047

MAIN CBA

Ref. No.	Mark	Description	Part No.
		MAIN CBA (MCV-A) Consists of the following:	----------
		CAPACITORS	
C056		ELECTROLYTIC CAP. 47µF/25V M	CE1EMASDL470
C058		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMASSL221
C059		ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASDL101
C062		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C063		ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C104		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C107		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C112		CHIP CERAMIC CAP.(1608) CH J 470pF/ 50V	CHD1JJ3CH471
C113		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C114		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C116		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C117		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL1R0
C118		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C121		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C122		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C123		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C124		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C125		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C126		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C127		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100
C128		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMASSL220
C133		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C135		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C136		ELECTROLYTIC CAP. 100µF/6.3V M H7	CE0KMASSL101
C151		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C152		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C153		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C154		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C155		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100
C156		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C157		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C159		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C251		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C252		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C253		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C254		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C301		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C302		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C303		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C305		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C306		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C307		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C308		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C309		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C310		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C311		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C312		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C313		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMASSL1R0
C314		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C315		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C316		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C317		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C318	B	CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
	B	CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C319		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C320		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C321		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C322		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C323		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C324		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C325		CHIP CERAMIC CAP. B K 8200pF/50V	CHD1JK30B822
C326		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C328		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C329		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C331		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C333		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C334		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C335		ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C336		CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C337		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C339		CHIP CERAMIC CAP. CH J 120pF/50V	CHD1JJ3CH121
C340		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C341		CHIP CERAMIC CAP.(1608) CH D 10pF/ 50V	CHD1JD3CH100
C342		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C343		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C344		ELECTROLYTIC CAP. 4.7µF/25V M NP H7	CP1EMAVSB4R7
C345		ELECTROLYTIC CAP. 0.47µF/50V M H7	CE1JMAVSLR47
C346		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C347		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 16V	CHD1CK30B104
C349		ELECTROLYTIC CAP. 0.47µF/50V M H7	CE1JMAVSLR47
C350		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZTFZ104

Ref. No.	Mark	Description	Part No.
C402		POLYESTER FILM CAP. (PB FREE) 0.018µF/100V J or	CA2A183DT018
		FILM CAP.(P) 0.018µF/50V J or	CA1J183MS029
		FILM CAP.(P) 0.018µF/100V J	CMA2AJP00183
C403		CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C404		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMASSL221
C405		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C407		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C408		CHIP CERAMIC CAP. B K 1800pF/50V	CHD1JK30B182
C409		CHIP CERAMIC CAP.(1608) CH J 33pF/ 50V	CHD1JJ3CH330
C410		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C411		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C412		ELECTROLYTIC CAP. 33µF/6.3V M H7	CE0KMAVSL330
C413		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C414		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C415		ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C417		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C418		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C419		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C421		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C423		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C426		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C427		CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C429		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C502		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C505		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C506		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C507		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C508		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C509		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C510		CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V	CHD1JK30B472
C511		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C512		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C514		CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C515		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C516		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMASSL220
C517		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C518		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C519		CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJ3CH561
C521		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMASSL220

Ref. No.	Mark	Description	Part No.
C524		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C526		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C527		CERAMIC CAP.(AX) B K 100pF/50V	CCA1JKT0B101
C530		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C531		CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V	CHD1JK30B472
C533		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C534		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C535		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C536	B	CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJ3CH561
C538		CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJ3CH181
C539		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C540		CHIP CERAMIC CAP.(1608) B K 4700pF/ 50V	CHD1JK30B472
C541		CHIP CERAMIC CAP. CH J 18pF/50V	CHD1JJ3CH180
C542		CHIP CERAMIC CAP. CH J 18pF/50V	CHD1JJ3CH180
C543		CHIP CERAMIC CAP. CH J 18pF/50V	CHD1JJ3CH180
C544		CHIP CERAMIC CAP. CH J 20pF/50V	CHD1JJ3CH200
C545		CHIP CERAMIC CAP.(1608) CH J 22pF/ 50V	CHD1JJ3CH220
C546		CHIP CERAMIC CAP. CH J 18pF/50V	CHD1JJ3CH180
C547		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C548		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C549		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C550		ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C553		ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMAVSL220
C555		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 16V	CHD1CK30B104
C702	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C703		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C704		CERAMIC CAP.(AX) SL J 39pF/50V	CCA1JJTSL390
C707		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C709		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C710		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C711		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C712		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C751		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C752		ELECTROLYTIC CAP. 47µF/10V M	CE1AMASDL470
C753		ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C754		ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMASSL4R7
C755		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C756		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C757		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMASSL470

Ref. No.	Mark	Description	Part No.
C758		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C784		CHIP CERAMIC CAP.(1608) CH J 470pF/ 50V	CHD1JJ3CH471
C1036		CERAMIC CAP.(AX) F Z 1µF/50V	CA1J105TU014
C1038		CERAMIC CAP.(AX) F Z 1µF/50V	CA1J105TU014
C1040		ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASDL101
C1042		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C1050		CHIP CERAMIC CAP.(1608) B K 0.33µF/ 10V	CHD1AK30B334
C1051		CHIP CERAMIC CAP.(1608) B K 0.33µF/ 10V	CHD1AK30B334
C1052		ELECTROLYTIC CAP. 220µF/16V M	CE1CMASDL221
C1056		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C1201		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1202		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1205		CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C1206		CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C1207		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C1208		CHIP CERAMIC CAP.(1608) CH J 68pF/ 50V	CHD1JJ3CH680
C1221		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100
C1222		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100
C1245		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C1246		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C1247		ELECTROLYTIC CAP. 470µF/16V M	CE1CMASDL471
C1249		ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C1353		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 16V	CHD1CK30B104
C1354		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C1355		CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C1359		CHIP CERAMIC CAP. CH D 9pF/50V	CHD1JD3CH9R0
C1421		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C1422		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/ 16V	CHD1CK30B104
C1441		CHIP CERAMIC CAP.(1608) B K 0.33µF/ 10V	CHD1AK30B334
C1442		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C1523		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C1524		ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASDL101
C1535		CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C1536		ELECTROLYTIC CAP. 22µF/6.3V M	CE0KMASDL220
C2002		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C2004		ELECTROLYTIC CAP. 100µF/6.3V M H7	CE0KMASSL101
C2012		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/ 25V	CHD1EZ30F104
C2013		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL1R0
CONNECTOR			
CN051		242 SERIES CONNECTOR 224202114W1	J322C14TG001
DIODES			
D051		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D052		RECTIFIER DIODE 1N4005 or	NDQZ001N4005

Ref. No.	Mark	Description	Part No.
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D054		CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
D056		ZENER DIODE MTZJT-7718B or	QDTB00MTZJ18
		DIODE ZENER 18BSB-T26 or	NDTB018BST26
		ZENER DIODE DZ-18BSBT265	NDTB00DZ18BS
D057		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D058		ZENER DIODE MTZJT-774.3C or	QDTC0MTZJ4R3
		DIODE ZENER 4V3BSC-T26 or	NDTC4R3BST26
		ZENER DIODE DZ-4.3BSCT265	NDTC0DZ4R3BS
D101		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D103		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D106		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D107		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D108		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D109		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D110		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D111		ZENER DIODE MTZJT-775.1C or	QDTC0MTZJ5R1
		DIODE ZENER 5V1BSC-T26 or	NDTC5R1BST26
		ZENER DIODE DZ-5.1BSCT265	NDTC0DZ5R1BS
D115		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D118		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D119		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D121		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D301		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D501		LED(RED) 204HD/E	NPQZ00204HDE
D502		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D503		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D504		LED(RED) 204HD/E	NPQZ00204HDE
D505		LED(RED) 204HD/E	NPQZ00204HDE
D510		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D511		ZENER DIODE MTZJT-777.5A or	QDTA0MTZJ7R5
		DIODE ZENER 7V5BSA-T26 or	NDTA7R5BST26
		ZENER DIODE DZ-7.5BSAT265	NDTA0DZ7R5BS
D512		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D555		LED MIE-534A2 or	NPZZM1E534A2
		LED SIR-563ST3F P or	QPQPS1R563ST
		LED SIR-563ST3F Q	QPQQS1R563ST
D701		ZENER DIODE MTZJT-7733D or	QDTD00MTZJ33
		DIODE ZENER 33BSD-T26 or	NDTD033BST26
		ZENER DIODE DZ-33BSDT265	NDTD00DZ33BS
D1052		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1053		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1054		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1057		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D2001		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D2002		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D2093		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
		ICS	
IC101		IC SWITCH TC4053BF(EL N F) or	QSZBA0TTS163
		IC ANALOG MULTIPLEXER CD4053BNSR or	NSZBA0TTY093
		IC ANALOG MULTIPLEXERS CD4053BCSJX_NL	NSZBA0TF3138
IC102		DRIVER FOR DVD MM1637XVBE	QSZBA0TMM102
IC151		IC SWITCHING CD4052BNSR or	NSZBA0TTY091
		IC SWITCHING TC4052BF(ELNF) or	QSZBA0TTS162
		IC SWITCHING CD4052BCSJX_NL	NSZBA0TF3137
IC301		IC Y/C/A LA71750EM-MPB-E	QSZBA0RSY020
IC501		SYSCON IC M3776AMCH-AG6GP	QSZAB0RHT151
IC502		IC BR24L02F-WE2 or	QSZBA0TRM068
		IC CAT24WC02WI-TE13	NSZBA0TBG007
IC751		IC SWITCH TC4053BF(EL N F) or	QSZBA0TTS163
		IC ANALOG MULTIPLEXER CD4053BNSR or	NSZBA0TTY093
		IC ANALOG MULTIPLEXERS CD4053BCSJX_NL	NSZBA0TF3138
IC1002		VOLTAGE REGULATOR PQ1LAX95MSPQ	QSZBA0TSH053
IC1003		VOLTAGE REGULATOR PQ1LAX95MSPQ	QSZBA0TSH053
IC1201		IC OP AMP KIA4558P/P or	NSZBA0SJY035
		IC OP AMP RC4580IP or	NSZBA0STY173
		IC OP AMP UTC4558	NSZBA0S2H001
IC1403		DRIVER FOR DVD MM1636XWRE	QSZBA0TMM108
IC1404		IC SWITCH TC4053BF(EL N F) or	QSZBA0TTS163
		IC ANALOG MULTIPLEXER CD4053BNSR or	NSZBA0TTY093
		IC ANALOG MULTIPLEXERS CD4053BCSJX_NL	NSZBA0TF3138
		COILS	
L053		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L101		BEAD CORE ASSEMBLY E8G05ED	1VSA15550
L122		CHOKE COIL 47μH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47μH-K	LLBD00PKT001
L251		INDUCTOR 5.6μH-K-26T	LLAXKATTU5R6
L302		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L402		INDUCTOR 47μH-K-5FT	LLARKBSTU470
L501		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101
L502		PCB JUMPER D0.6-P5.0	JW5.0T
L503		INDUCTOR 1.8μH-K-26T	LLAXKATTU1R8
L701		INDUCTOR 15μH-K-26T	LLAXKATTU150
L704		PCB JUMPER D0.6-P5.0	JW5.0T
L1251		INDUCTOR(0.47μH K) LAP02TAR47K	LLAXKATTUR47
L1351		INDUCTOR(100μH K) LAP02TA101K	LLAXKATTU101

Ref. No.	Mark	Description	Part No.
L1521		CHOKE COIL 47µH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47µH-K	LLBD00PKT001
L2001		INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
		TRANSISTORS	
Q051		TRANSISTOR KTA1281Y-AT/P or	NQVYKTA1281P
		TRANSISTOR 2SA1020-Y(TE6 F M)	QQSY2SA1020F
Q052		NPN TRANSISTOR KRC103M-AT/P	NQSZKRC103MP
Q053		TRANSISTOR RN2204(TE4 F T)	QQSZ0RN2204F
Q054		NPN TRANSISTOR KRC103M-AT/P	NQSZKRC103MP
Q056		TRANSISTOR KTC3205-Y-AT/P or	NQSYKTC3205P
		TRANSISTOR 2SC3266-Y(TPE2 F)	QQSY2SC3266F
Q057		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q058		TRANSISTOR KTA1267-Y-AT/P or	NQSYKTA1267P
		TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q104		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
Q105		TRANSISTOR KTC3879-Y-RTK/P	NQ1YKTC3879P
Q156		CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q157		CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q302		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q401		CHIP TRANSISTOR RN1511(TE85R.F) or	QQ2Z0RN1511F
		CHIP TRANSISTOR FMG4A T148	QQ2Z000FMG4A
Q403		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q404		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
Q405		RES. BUILT-IN TRANSISTOR KRA103M-AT/P	NQSZ0KRA103M
Q406		CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q502		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
Q506		PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
		PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q507		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q508		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q509		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q511		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
Q513		NPN TRANSISTOR KRC103M-AT/P	NQSZKRC103MP
Q514		TRANSISTOR KTC3199-BL-AT/P or	NQS5KTC3199P
		TRANSISTOR 2SC1815-BL(TE2 F T)	QQS22SC1815F
Q515		TRANSISTOR KTC3199-BL-AT/P or	NQS5KTC3199P
		TRANSISTOR 2SC1815-BL(TE2 F T)	QQS22SC1815F
Q753		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q754		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q1052		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q1053		TRANSISTOR KTA1267-Y-AT/P or	NQSYKTA1267P
		TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q1054		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q1055		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q1203		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
Q1351		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q1502		TRANSISTOR KRC103S-RTK/P	NQ1ZKRC103SP
Q1503		CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q2002		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q2012		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
		RESISTORS	
R050		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R051		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R052		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R053		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R054		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R055		CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R056		CHIP RES. 1/10W J 1 Ω or	RRXAJR5Z01R0
		RES CHIP 1608 1/10W J 1 Ω	RRXA1R0YF002
R058		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R059		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R060		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R061		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R062		CHIP RES. 1/10W J 180 Ω or	RRXAJR5Z0181
		RES CHIP 1608 1/10W J 180 Ω	RRXA181YF002
R063		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R064		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R065		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R067		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R070		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R071		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R072		CARBON RES. 1/6W J 0.47 Ω or	RCX6JATZ0R47
		CARBON RES. 1/4W J 0.47 Ω	RCX4JATZ0R47
R105		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R112		CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
		RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R113		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R116		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R119		CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R121		CARBON RES. 1/6W J 15k Ω or	RCX6JATZ0153
		CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R122		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R127		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R128		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R129		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R130		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R131		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R135		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R136		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R137		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R138		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R139		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R140		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R156		CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
		RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R157		CHIP RES. 1/10W J 390k Ω or	RRXAJR5Z0394
		RES CHIP 1608 1/10W J 390k Ω	RRXA394YF002
R158		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R159		CHIP RES. 1/10W J 390k Ω or	RRXAJR5Z0394
		RES CHIP 1608 1/10W J 390k Ω	RRXA394YF002
R160		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R251		CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
		RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R252		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R301		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R303		CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
		RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R305		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R306		CHIP RES. 1/10W J 5.6M Ω or	RRXAJR5Z0565
		RES CHIP 1608 1/10W J 5.6M Ω	RRXA565YF002
R307		CARBON RES. 1/6W J 33 Ω or	RCX6JATZ0330
		CARBON RES. 1/4W J 33 Ω	RCX4JATZ0330
R308	B	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	B	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R310		CARBON RES. 1/6W J 33 Ω or	RCX6JATZ0330
		CARBON RES. 1/4W J 33 Ω	RCX4JATZ0330
R311		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R312	B	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	B	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R314		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R315		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R319		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R320		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R321		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R322		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R323		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R324		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R325		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R326		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R327		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R328		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R330		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R331		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R332		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R333		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R334		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R335		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R336		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R337		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R341		CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
		RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R401		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R402		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R405		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R406		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R407		CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
		RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R408		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R409		CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
		RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R410		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R411		CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
		RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R412		CHIP RES. 1/10W J 120 Ω or	RRXAJR5Z0121
		RES CHIP 1608 1/10W J 120 Ω	RRXA121YF002
R413		CHIP RES. 1/10W J 330k Ω or	RRXAJR5Z0334
		RES CHIP 1608 1/10W J 330k Ω	RRXA334YF002
R414		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R415		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R416		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R417		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R418		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R419		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R420		CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683
		RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R421		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R423		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R424		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R427		CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R428		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R501		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R502		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R503		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R504		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R507		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R509		CHIP RES. 1/10W J 180 Ω or	RRXAJR5Z0181
		RES CHIP 1608 1/10W J 180 Ω	RRXA181YF002
R511		CARBON RES. 1/6W G 3.6k Ω or	RCX6GATZ0362
		CARBON RES. 1/4W G 3.6k Ω	RCX4GATZ0362
R512		CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683
		RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R513		CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
		RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R514		CARBON RES. 1/6W G 10k Ω or	RCX6GATZ0103
		CARBON RES. 1/4W G 10k Ω	RCX4GATZ0103
R516		CARBON RES. 1/6W G 470 Ω or	RCX6GATZ0471
		CARBON RES. 1/4W G 470 Ω	RCX4GATZ0471
R517		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R519		CARBON RES. 1/6W G 22k Ω or	RCX6GATZ0223
		CARBON RES. 1/4W G 22k Ω	RCX4GATZ0223
R520		CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R521		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R522		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R523		CARBON RES. 1/6W G 1.5k Ω or	RCX6GATZ0152
		CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R524		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R525		CARBON RES. 1/6W J 390k Ω or	RCX6JATZ0394
		CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R526		CHIP RES. 1/10W J 390k Ω or	RRXAJR5Z0394
		RES CHIP 1608 1/10W J 390k Ω	RRXA394YF002
R527		CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R528		CARBON RES. 1/6W G 4.7k Ω or	RCX6GATZ0472
		CARBON RES. 1/4W G 4.7k Ω	RCX4GATZ0472
R529		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R530		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R531		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R532		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R533		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R534		CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R535		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R536		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R537		CHIP RES. 1/10W J 680 Ω or	RRXAJR5Z0681
		RES CHIP 1608 1/10W J 680 Ω	RRXA681YF002
R538		CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
		RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R539		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R540		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R542		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R543		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R544		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R545		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R546		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R567		CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
		RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R568		CHIP RES. 1/10W J 220k Ω or	RRXAJR5Z0224
		RES CHIP 1608 1/10W J 220k Ω	RRXA224YF002
R569		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R570		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R572		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R574		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R575		CHIP RES. 1/10W J 330k Ω or	RRXAJR5Z0334
		RES CHIP 1608 1/10W J 330k Ω	RRXA334YF002
R576		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R577		CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
		RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R578		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R581		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R582		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R583		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R584		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R585		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R586		CHIP RES. 1/10W J 820 Ω or	RRXAJR5Z0821
		RES CHIP 1608 1/10W J 820 Ω	RRXA821YF002
R588		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R601		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R602		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R603		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R604		CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
		RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R605		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R702	B	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	B	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R703		CARBON RES. 1/6W J 1.8k Ω or	RCX6JATZ0182
		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R704		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R705		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R706		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R756		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R757		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R761		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R763		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R764		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R767		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R768		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R769		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R902		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R931		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R932		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R933		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1061		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1062		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1065		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1066		CHIP RES. 1/10W J 220k Ω or	RRXAJR5Z0224
		RES CHIP 1608 1/10W J 220k Ω	RRXA224YF002
R1067		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1068		CARBON RES. 1/6W J 390 Ω or	RCX6JATZ0391
		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R1083		METAL OXIDE FILM RES. 1W J 1.2 Ω or	RN01JZLZ01R2
		METAL OXIDE FILM RES. 1W J 1.2 Ω	RN01JZPZ01R2
R1085		CHIP RES. 1/10W F 120 Ω or	RRXAFR5H1200
		CHIP RES. 1/10W F 120 Ω or	RRXAFR5Z1200
		RES CHIP 1608 1/10W F 120 Ω	RTW1200YF002
R1086		CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
		CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
		RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
R1087		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1090		CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
		RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R1091		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R1205		CHIP RES. 1/10W F 12k Ω or	RRXAFR5H1202
		CHIP RES.(1608) 1/10W F 12k Ω or	RRXAFR5Z1202
		RES CHIP 1608 1/10W F 12.0k Ω	RTW1202YF002
R1206		CHIP RES. 1/10W F 12k Ω or	RRXAFR5H1202
		CHIP RES.(1608) 1/10W F 12k Ω or	RRXAFR5Z1202
		RES CHIP 1608 1/10W F 12.0k Ω	RTW1202YF002
R1207		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1208		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1209		CHIP RES. 1/10W F 30k Ω or	RRXAFR5H3002
		CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5Z3002
		RES CHIP 1608 1/10W F 30.0k Ω	RTW3002YF002
R1210		CHIP RES. 1/10W F 30k Ω or	RRXAFR5H3002
		CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5Z3002
		RES CHIP 1608 1/10W F 30.0k Ω	RTW3002YF002
R1211		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1221		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1222		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1223		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1224		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1227		CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R1228		CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
		RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R1229		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1237		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1239		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1245		CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
		RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R1352		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R1353		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1354		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1355		CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
		RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R1356		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R1361		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1421		CHIP RES. 1/10W F 120 Ω or	RRXAFR5H1200
		CHIP RES. 1/10W F 120 Ω or	RRXAFR5Z1200
		RES CHIP 1608 1/10W F 120 Ω	RTW1200YF002
R1422		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1423		CHIP RES. 1/10W F 130 Ω or	RRXAFR5H1300
		CHIP RES. 1/10W F 130 Ω or	RRXAFR5Z1300
		RES CHIP 1608 1/10W F 130 Ω	RTW1300YF002
R1442		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1461		CHIP RES. 1/10W F 130 Ω or	RRXAFR5H1300
		CHIP RES. 1/10W F 130 Ω or	RRXAFR5Z1300
		RES CHIP 1608 1/10W F 130 Ω	RTW1300YF002
R1471		CHIP RES. 1/10W F 130 Ω or	RRXAFR5H1300
		CHIP RES. 1/10W F 130 Ω or	RRXAFR5Z1300
		RES CHIP 1608 1/10W F 130 Ω	RTW1300YF002
R1481		CHIP RES. 1/10W F 130 Ω or	RRXAFR5H1300
		CHIP RES. 1/10W F 130 Ω or	RRXAFR5Z1300
		RES CHIP 1608 1/10W F 130 Ω	RTW1300YF002
R1501		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1502		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1503		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R2001		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R2002		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R2003		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R2005		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R2006		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R2051		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R2052		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R2053		CARBON RES. 1/6W J 180 Ω or	RCX6JATZ0181
		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2054		CARBON RES. 1/6W J 180 Ω or	RCX6JATZ0181
		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2055		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R2056		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002

Ref. No.	Mark	Description	Part No.
R2080		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R2081		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R2086		CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
		RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R2093		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R2094		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
SWITCHES			
SW501		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW502		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW503		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW504		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW506		LEAF SWITCH MXS01830MVP0	SSC0101MCE03
SW507		SWITCH ROTARY SSS-53MD-1	SSR0106KB004
SW601		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW602		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW603		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW604		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW605		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2005		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2006		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2021		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2022		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS			
2B11		NEW SHIELD ASSEMBLY H9700ED	1VM420438
2B15		BUSH LED(F) H3700UD	0VM409508
2B46		ROHM HOLDER H7770JD	0VM304573
2L062		SCREW B-TIGHT M3X8 BIND HEAD+	GBHB3080
2L082		SCREW B-TIGHT M3X8 BIND HEAD+	GBHB3080
A5		JACK COVER E8B80BD	1VM323212
JK101		RGB CONNECTOR MRC-021V-03 ABS(B11	JXGL210LY006
JK751		RCA JACK 2P MSP-282V-12 NILF(B11	JXRL020LY121
JK752		RCA JACK MSP-281V42-B(B110)	JXRL010LY142
JK754		RCA JACK MSP-281V40-B(B110)	JXRL010LY138
JK1202		RCA JACK MSP-281V41-B(B110)	JXRL010LY140
JK1401		S TYPE JACK MDC-050V-2.4 LF(B110 or	JXEL040LY003
		S TYPE JACK DIN-425-01	JXEL040YUQ01

Ref. No.	Mark	Description	Part No.
JW006		FFC CABLE 27P FFC/P1.00/260	WX1E8B00-103
JW007		FFC CABLE 16P FFC/P1.00/170	WX1E8B00-101
PS502		PHOTO INTERRUPTER RPI-302C70	QPWZP1302C70
RM2001		SENSOR REMOTE RECEIVER KSM-602LU2S or	USESJRSKK048
		REMOTE RECEIVER PIC-37042LU or	USESJRSKK033
		REMOTE RECEIVER MIM-93M6DKF	USESJRSUNT01
TP301		PCB JUMPER D0.6-P19.0	JW19.0T
TP501		PCB JUMPER D0.6-P5.0	JW5.0T
TP502		PCB JUMPER D0.6-P5.0	JW5.0T
TP503		PCB JUMPER D0.6-P6.0	JW6.0T
TP504		PCB JUMPER D0.6-P15.0	JW15.0T
TU701		TUNER UNIT TMDG9-861A	UTUNPLGAL015
X301		XTAL 4.433619MHz or	FXC445LLN004
		XTAL 1K*044334EE	FXC445LDS002
X501		XTAL 12MHz 12.000MHz or	FXD126LDS002
		QUARTS CRYSTAL 12.000000MHz	FXD126LCHE01
X502		RESONATOR XTAL 32.768kHz QTF38-32.768K125P15L or	FXC323LQUA03
		XTAL DT38 32.768kHz	FX0323LDS001

DVD OPEN/CLOSE CBA

Ref. No.	Mark	Description	Part No.
		DVD OPEN/CLOSE CBA (MCV-C) Consists of the following:	---------
SWITCHES			
SW2020		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS			
JW008		JUMPER WIRE 2P AWG26#2651/P2.0/130	WX1H7375-001

SENSOR CBA

Ref. No.	Mark	Description	Part No.
		SENSOR CBA Consists of the following:	1VSA10047
TRANSISTORS			
Q503		PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
		PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q504		PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
		PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F

PSV CBA

Ref. No.	Mark	Description	Part No.
		PSV CBA Consists of the following	1VSA15613
		POWER SUPPLY CBA (PSV-A) JUNCTION CBA (PSV-B) JACK-A CBA (PSV-C)	-------- -------- --------

POWER SUPPLY CBA

Ref. No.	Mark	Description	Part No.
		POWER SUPPLY CBA (PSV-A) Consists of the following:	--------
CAPACITORS			
C013		ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C014		ELECTROLYTIC CAP. 470µF/16V M	CE1CMASDL471
C015		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C017		ELECTROLYTIC CAP. 1000µF/16V M	CE1CMASDL102
C018		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C020		ELECTROLYTIC CAP. 22µF/50V M	CE1JMASDL220
C021		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C022		ELECTROLYTIC CAP. 470µF/35V M	CE1GMASDL471

Ref. No.	Mark	Description	Part No.
C1001⚠		METALIZED FILM CAP. 0.068µF/250V K or	CT2E683DC011
⚠		METALIZED FILM CAP. 0.068µF/250V K or	CT2E683DC014
⚠		METALIZED FILM CAP. 0.068µF/250V M	CT2E683MS037
C1004		ELECTROLYTIC CAP. 100µF/400V M	CA2H101S6016
C1005		CERAMIC CAP. SL K 56pF/1KV or	CCD3AKPSL560
		CERAMIC CAP. SL J 56pF/1KV	CCD3AJPSL560
C1006⚠		SAFTY CAP. 2200pF/250V or	CCN2EMA0E222
⚠		SAFETY CAP. 2200pF/250V	CA2E222MR049
C1007		ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMASDL102
C1013		CERAMIC CAP.(AX) X K 3300pF/16V	CCA1CKT0X332
C1025		CHIP CERAMIC CAP. B K 0.068µF/50V or	CHD1JK30B683
		CHIP CERAMIC CAP. B K 0.068µF/25V	CHD1EK30B683
C1029		CERAMIC CAP.(AX) X K 2200pF/16V	CCA1CKT0X222
C1032		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100
C1033		CERAMIC CAP. YV Z 0.022µF/50V	CCD1JZSYV223
C1035		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C1106		ELECTROLYTIC CAP. 100µF/35V M	CE1GMASDL101
C1107		ELECTROLYTIC CAP. 220µF/6.3V M	CE0KMASDL221
C2014		CERAMIC CAP. B K 0.01µF/500V	CCD2JKP0B103
C2015		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
DIODES			
D013		RECTIFIER DIODE BA158 or	NDQZ000BA158
		DIODE FAST RECOVERY BA158 or	NDLZ00BA158S
		RECTIFIER DIODE BA158	NDWZ000BA158
D014		SCHOTTKY BARRIER DIODE SB390 or	NDQZ000SB390
		DIODE SCHOTTKY SB390 or	NDLZ00SB390S
		SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D016		SCHOTTKY BARRIER DIODE SB340 or	NDQZ000SB340
		DIODE SCHOTTKY SB340 or	NDLZ00SB340S
		SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D017		ZENER DIODE MTZJT-7718A or	QDTA00MTZJ18
		DIODE ZENER 18BSA-T26 or	NDTA018BST26
		ZENER DIODE DZ-18BSAT265	NDTA00DZ18BS
D018		RECTIFIER DIODE BA158 or	NDQZ000BA158
		DIODE FAST RECOVERY BA158 or	NDLZ00BA158S
		RECTIFIER DIODE BA158	NDWZ000BA158
D019		RECTIFIER DIODE FR203-B/P or	NDQZ000FR203
		DIODE FAST FR203	NDLZ00FR203S
D1001		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1002		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1003		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1004		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1006		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D1008		SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
		DIODE SCHOTTKY SB140 or	NDLZ00SB140S
		SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D1011		RECTIFIER DIODE BA159 or	NDQZ000BA159
		DIODE FAST RECOVERY BA159 or	NDLZ00BA159S
		RECTIFIER DIODE BA159	NDWZ000BA159
D1012		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D1018		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D1019		ZENER DIODE MTZJT-776.8B or	QDTB0MTZJ6R8
		DIODE ZENER 6V8BSB-T26 or	NDTB6R8BST26
		ZENER DIODE DZ-6.8BSBT265	NDTB0DZ6R8BS
D1022		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D1024		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D1025		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
		SWITCHING DIODE 1N4148M	NDTZ01N4148M
D1030		SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
		DIODE SCHOTTKY SB140 or	NDLZ00SB140S
		SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
ICS			
IC1001 ⚠		PHOTOCOUPLER EL817A or	NPEA000EL817
⚠		PHOTOCOUPLER EL817B or	NPEB000EL817
⚠		PHOTOCOUPLER PS2561A-1(Q) or	QPEQPS2561A1
⚠		PHOTOCOUPLER PS2561A-1(W)	QPEWPS2561A1
COILS			
L010		CHOKE COIL 47µH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47µH-K	LLBD00PKT001
L013		CHOKE COIL 47µH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47µH-K	LLBD00PKT001
L1001		BEAD CORE ASSEMBLY E8G05ED	1VSA15550
L1002		BEAD CORE ASSEMBLY E8G05ED	1VSA15550
L1003		LINE FILTER 56MH TLF14CB5630R2 or	LLBG00ZTU022
		LINE FILTER 50MH LF-4D-E503(PB FREE)	LLBG00ZKQ014
L1004		BEAD CORE B16 RH 3.5X10X1.3 or	XL03010XM001
		BEAD CORE HF70BB3.5X10X1.3	XL03010TE001
L1005		BEAD CORE ASSEMBLY E8G05ED	1VSA15550
L1009		CHOKE COIL 47µH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47µH-K	LLBD00PKT001
L1011		CHOKE COIL 47µH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47µH-K	LLBD00PKT001
L1012		CHOKE COIL 47µH or	LLBD00PKV022
		RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
		CHOKE COIL 47µH-K	LLBD00PKT001
TRANSISTORS			
Q1001⚠		FET 2SK3566 or	QFWZ02SK3566
⚠		FET MOS SPA02N80C3	NFWZSPA02N80
Q1003		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q1004		TRANSISTOR KTA1267-Y-AT/P or	NQSYKTA1267P
		TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q1008		TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
RESISTORS			
R057		CHIP RES. 1/10W J 220k Ω or	RRXAJR5Z0224
		RES CHIP 1608 1/10W J 220k Ω	RRXA224YF002
R1002		CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R1003		CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R1004		METAL OXIDE FILM RES. 2W J 82k Ω or	RN02JZLZ0823
		METAL OXIDE FILM RES. 2W J 82k Ω	RN02JZPZ0823
R1005		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1006		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1007		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105

Ref. No.	Mark	Description	Part No.
R1008		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R1010		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R1011		METAL OXIDE FILM RES. 1W J 1.3 Ω or	RN01JZLZ01R3
		METAL OXIDE FILM RES. 1W J 1.3 Ω	RN01JZPZ01R3
R1020		CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
		RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R1021		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1022		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1023		CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5H0222
		CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5Z0222
		RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R1025		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H0562
		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5Z0562
		RES CHIP 1608 1/10W F 5.60k Ω	RTW5601YF002
R1029		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1030		CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R1031		CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R1032		CARBON RES. 1/4W G 1k Ω	RCX4GATZ0102
R1035		CARBON RES. 1/6W J 1k Ω or	RCX6JATZ0102
		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1036		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1037		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1038		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1039		CARBON RES. 1/6W J 470k Ω or	RCX6JATZ0474
		CARBON RES. 1/4W J 470k Ω	RCX4JATZ0474
R1043		METAL OXIDE FILM RES. 1W J 2.7 Ω or	RN012R7ZU001
		METAL OXIDE FILM RES. 1W J 2.7 Ω	RN012R7DP003
R1126		CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
		RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
MISCELLANEOUS			
2B33		HEATSINK H9700ED	0VM416271
2L053		SCREW S-TIGHT M3X8 BIND HEAD+	GBJS3080
AC1001 ⚠		AC CORD PE8G2CG9G0AA059 or	WAE0172LW009
⚠		AC CORD WITH A GND WIRE L0A0280-005	WAE0172LTE06
F1001⚠		FUSE T1.6AL/250V or	PAGC20BW3162
⚠		FUSE 50T016H 1.6A/250V	PAGH20BHV162
FH1001		FUSE HOLDER MSF-015 LF (B110) or	XH01Z00LY002
		FUSE HOLDER DFH-001	XH01Z00RP001
FH1002		FUSE HOLDER MSF-015 LF (B110) or	XH01Z00LY002
		FUSE HOLDER DFH-001	XH01Z00RP001
T0011⚠		TRANS POWER BCK-28-9993 or	LTTZPE0XB001
⚠		TRANS POWER 6708	LTTZPE0KT004

JUNCTION CBA

Ref. No.	Mark	Description	Part No.
		JUNCTION CBA (PSV-B) Consists of the following:	--------
CONNECTOR			
CN051A		242 SERIES CONNECTOR TUC-P14X-B1 WHT ST	JCTUB14TG002
MISCELLANEOUS			
JW001		FLAT CABLE 8P AWG26#2651/P2.0/75	WX3808S6FF07
JW002		FLAT CABLE 6P AWG26#2651/P2.0/65	WX3806S6FF06

JACK-A CBA

Ref. No.	Mark	Description	Part No.
		JACK-A CBA (PSV-C) Consists of the following:	--------
CAPACITORS			
C101		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C102		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C103		ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C105		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C108		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C111		CHIP CERAMIC CAP.(1608) CH J 470pF/50V	CHD1JJ3CH471
C119		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
DIODES			
D112		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D113		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D122		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D123		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D124		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
D125		ZENER DIODE MTZJT-7711A or	QDTA00MTZJ11
		DIODE ZENER 11BSA-T26 or	NDTA011BST26
		ZENER DIODE DZ-11BSAT265	NDTA00DZ11BS
COIL			
L102		BEAD CORE ASSEMBLY E8G05ED	1VSA15550
TRANSISTORS			
Q103		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
RESISTORS			
R107		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R108		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R109		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R110		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R111		CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R114		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R115		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R117		CARBON RES. 1/4W J 510 Ω	RCX4JATZ0511
R120		CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R125		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R126		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
MISCELLANEOUS			
JK1402		RGB CONNECTOR MRC-021V-03 ABS(B11	JXGL210LY006
JW003		FLAT CABLE 10P AWG26#2651/P2.0/190	WX3810S6FF19
JW004		FLAT CABLE 4P AWG26#2651/P2.0/190	WX3804S6FF19